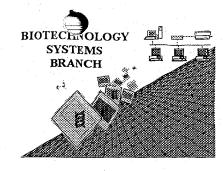
# RAW SEQUENCE LISTING ERROR REPORT



RECEIVED
JUL 1 7 2001
ECH CENTER 1600/2920

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

419

Application Serial Number: 09/084,47/B

Source: /655

Date Processed by STIC: 6/25/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:53

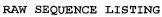
Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

#### SEQUENCE LISTING

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(1) GENERAL INFORMATION:
      7
              (i) APPLICANT: Murphy, Patricia
                                                                        Does Not Comply
      8
                              White, Marga
                                                                    Corrected Diskette Needed
      9
                              Olson, Sheri
                                                                       -pr 4-10, 13-19,
22-28, 31-37,
ES 40-46
     10
                              Yoshikawa, Matthew
     11
                              Jackson, Geoffrey
     12
                              Eskanderi, Tara
     13
                              Schryer, Brenda
                              Park, Michael
     14
C--> 16
             (ii) TITLE OF INVENTION: NOVEL CODING SEQUENCE HAPLOTYPES
                                       OF THE HUMAN BRCA2 GENE
     17
     19
            (iii) NUMBER OF SEQUENCES: 133
     21
            (iv) CORRESPONDENCE ADDRESS:
                   (A) ADDRESSEE: Morgan, Lewis & Bockius LLP
     22
                   (B) STREET: 1800 M St., NW
     23
     24
                   (C) CITY: Washington
     25
                   (D) STATE: DC
     26
                   (E) COUNTRY: USA
     27
                   (F) ZIP: 20036
     29
             (v) COMPUTER READABLE FORM:
     30
                   (A) MEDIUM TYPE: Diskette
     31
                   (B) COMPUTER: IBM Compatible
     32
                   (C) OPERATING SYSTEM: DOS
     33
                   (D) SOFTWARE: FastSEQ for Windows Version 2.0
     35
            (vi) CURRENT APPLICATION DATA:
C--> 36
                   (A) APPLICATION NUMBER: US/09/084,471B
C--> 37
                   (B) FILING DATE: 22-May-1998
     38
                   (C) CLASSIFICATION:
     52
           (vii) PRIOR APPLICATION DATA:
     41
                   (A) APPLICATION NUMBER: US 60/055,784
     42
                   (B) FILING DATE: 15 August 1997
     45
                   (A) APPLICATION NUMBER: US 60/064,926
     46
                   (B) FILING DATE: 07 November 1997
     49
                   (A) APPLICATION NUMBER: US 60/065,367
     50
                   (B) FILING DATE: 12 November 1997
     53
                   (A) APPLICATION NUMBER: US 09/071,715
     54
                   (B) FILING DATE: 01 May 1998
     56
          (viii) ATTORNEY/AGENT INFORMATION:
     57
                   (A) NAME: Reid G. Adler
     58
                   (B) REGISTRATION NUMBER: 30,988
     59
                   (C) REFERENCE/DOCKET NUMBER: 44921-5058-01-US
     61
            (ix) TELECOMMUNICATION INFORMATION:
     62
                   (A) TELEPHONE: 202-467-7000
     63
                   (B) TELEFAX: 202-467-7258
```





PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:53

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

#### ERRORED SEQUENCES

1009 1011	(2)		RMAT: SEQU										4		$\mathcal{O}$	
1012																
1013					PE: a							~ /	レ			
1014								sing:	] 6							
1015					POLO			_			•	(  \	}			
1017		(ii)	MOLI									V				
1018			FRAC													
1020			SEQU						ZO TI	о мо	. 5:					
1022									-			Phe	Glu	Tle	Phe	Lvs
1023	1			- L. J	5			9		10					15	1-1-2
1024		Ara	Cvs	Asn	-	Ala	Asp	Leu	Glv		Ile	Ser	Leu	Asn	Trp	Phe
1025		ے	-4	20	4				25					3.0	1	
1026	Glu	Glu	Leu	Ser	Ser	Glu	Ala	Pro	Pro	Tvr	Asn	Ser	Glu	Pro	Ala	Glu
1027			35					40		-4			45			
1028	Glu	Ser	Glu	His	Lys	Asn	Asn	Asn	Tyr	Glu	Pro	Asn	Leu	Phe	Lys	Thr
1029		50			-4		55		-			60				
1030	Pro	Gln	Arq	Lys	Pro	Ser	Tyr	Asn	Gln	Leu	Ala	Ser	Thr	Pro	Ile	Ile
1031	65		,			70					75					80
1032	Phe	Lys	Glu	Gln	Gly	Leu	Thr	Leu	Pro	Leu	Tyr	Gln	Ser	Pro	Val	Lys
1033	•	_			85					90	_				95	
1034	Glu	Leu	Asp	Lys	Phe	Lys	Leu	Asp	Leu	Gly	Arg	Asn	Val	Pro	Asn	Ser
1035				100		_			105		_		•	110		
1036	Arg	His	Lys	Ser	Leu	Arg	Thr	Val	Lys	Thr	Lys	Met	Asp	Gln	Ala	Asp
1037	_		115			-		120	-		-		125			_
1038	Asp	Val	Ser	Суѕ	Pro	Leu	Leu	Asn	Ser	Cys	Leu	Ser	Glu	Ser	Pro	Val
1039	-	130					135			-		140				
1040	Val	Leu	Gln	Cys	Thr	His	Val	Thr	Pro	Gln	Arg	Asp	Lys	Ser	Val	Val
1041	145					150					155					160
1042	Cys	Gly	Ser	Leu	Phe	His	Thr	Pro	Lys	Phe	Val	Lys	Gly	Arg	Gln	Thr
1043					165					170					175	
1044	Pro	Lys	His	Ile	Ser	Glu	Ser	Leu	Gly	Ala	Glu	Val	Asp	Pro	Asp	Met
1045				180					185					190		
1046	Ser	Trp	Ser	Ser	Ser	Leu	Ala		Pro	Pro	Thr	Leu	Ser	Ser	Thr	Val
1047			195					200					205			
1048	Leu		Val	Arg	Asn	Glu		Ala	Ser	Glu	Thr		Phe	Pro	His	Asp
1049		210					215					220				
1050		Thr	Ala	Asn	Val		Ser	Tyr	Phe	Ser		His	Asp	Glu	Ser	
1051	225					230					235					240
1052	Lys	Lys	Asn	Asp		Phe	Ile	Ala	Ser		Thr	Asp	Ser	Glu	Asn	Thr
1053		_			245			_		250	_				255	
1054	Asn	Gln	Arg		Ala	Ala	Ser	His		Phe	Gly	Lys	Thr		Gly	Asn
1055			_	260	~	~	~	_	265		- 1	~ 1	_	270		_
1056	Ser	Phe		Va⊥	Asn	Ser	Cys		Asp	His	Ile	Gly		Ser	Met	Pro
1057	-	17 3	275	G.T	70	C3.	7	280	a1	mı.	T7 - 7	× 7 - 7	285	ml	<b>a</b>	<i>a</i> 3
1058	Asn		Leu	GLu	Asp	GLU		Tyr	Glu	Thr	val		Asp	Thr	Ser	GLU
1059	<b>63</b>	290	0	D).	0	Т с	295	nt -	0	т	C	300	m 1 <sub>2</sub>	т	7\ ~~	T 0
1060	GLU	Asp	ser	rne	ser	ьeu	Суѕ	rne	ser	гуѕ	cys	Arg	Tur	ьуs	Asn	ьеи





PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:54

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

1061	305					310					315					320
1062	Gln	Lys	Val	Arg	Thr	Ser	Lys	Thr	Arg	Lys	Lys	Ile	Phe	His	Glu	Ala
1063					325				-	330	-				335	
1064	Asn	Ala	Asp	Glu	Cys	Glu	Lys	Ser	Lys	Asn	Gln	Val	Lys	Glu	Lys	Tyr
1065				340					345					350		
1066	Ser	Phe	Val	Ser	Glu	Val	Glu	Pro	Asn	Asp	Thr	Asp	Pro	Leu	Asp	Ser
1067			355					360				-	365		-	
1068	Asn	Val	Ala	His	Gln	Lys	Pro	Phe	Glu	Ser	Gly	Ser	Asp	Lys	Ile	Ser
1069		370					375					380				
1070	Lys	Glu	Val	Val	Pro	Ser	Leu	Ala	Cys	Glu	Trp	Ser	Gln	Leu	Thr	Leu
1071	385					390			-		395					400
1072	Ser	Gly	Leu	Asn	Gly	Ala	Gln	Met	Glu	Lys	Ile	Pro	Leu	Leu	His	Ile
1073		-			405					410					415	
1074	Ser	Ser	Cys	Asp	Gln	Asn	Ile	Ser	Glu	Lys	Asp	Leu	Leu	Asp	Thr	Glu
1075				420					425		-			430		
1076	Asn	Lys	Arq	Lvs	Lys	Asp	Phe	Leu	Thr	Ser	Glu	Asn	Ser	Leu	Pro	Arq
1077			435	4	_	-		440					445			~
1078	Ile	Ser	Ser	Leu	Pro	Lvs	Ser	Glu	Lvs	Pro	Leu	Asn	Glu	Glu	Thr	Val
1079		450				_	455		4			460				
1080	Val	Asn	Lvs	Arq	Asp	Glu	Glu	Gln	His	Leu	Glu	Ser	His	Thr	Asp	Cys
1081	465		.4		-	470					475		i		•	480
1082	Ile	Leu	Ala	Val	Lys	Gln	Ala	Ile	Ser	Gly	Thr	Ser	Pro	Val	Ala	Ser
1083					485					490					495	
1084	Ser	Phe	Gln	Glv	Ile	Lvs	Lvs	Ser	Ile	Phe	Arq	Ile	Arg	Glu	Ser	Pro
1085				500		-4	4		505				_	510		
1086	Lvs	Glu	Thr	Phe	Asn	Ala	Ser	Phe		Glv	His	Met	Thr	Asp	Pro	Asn
1087	_		515					520		-			525	-		
1088	Phe	Lvs	Lvs	Glu	Thr	Glu	Ala	Ser	Glu	Ser	Glv	Leu	Glu	Ile	His	Thr
1089		530					535				_	540				
1090	Val	Cvs	Ser	Gln	Lys	Glu	Asp	Ser	Leu	Cys	Pro	Asn	Leu	Ile	Asp	Asn
1091	545	-			-	550	-			-	555				-	560
1092	Gly	Ser	Trp	Pro	Ala	Thr	Thr	Thr	Gln	Asn	Ser	Val	Ala	Leu	Lys	Asn
1093	_		_		565					570					575	
1094	Ala	Gly	Leu	Ile	Ser	Thr	Leu	Lys	Lys	Lys	Thr	Asn	Lys	Phe	Ile	Tyr
1095		_		580				-	585					590		
1096	Ala	Ile	His	Asp	Glu	Thr	Ser	Tyr	Lys	Gly	Lys	Lys	Ile	Pro	Lys	Asp
1097			595	_				600				_	605			
1098	Gln	Lys	Ser	Glu	Leu	Ile	Asn	Cys	Ser	Ala	Gln	Phe	Glu	Ala	Asn	Ala
1099		610					615	-				620				
1100	Phe	Glu	Ala	Pro	Leu	Thr	Phe	Ala	Asn	Ala	Asp	Ser	Gly	Leu	Leu	His
1101	625					630					635					640
1102	Ser	Ser	Val	Lys	Arg	Ser	Cys	Ser	Gln	Asn	Asp	Ser	Glu	Glu	Pro	Thr
1103				_	$64\bar{5}$		_			650	_				655	
1104	Leu	Ser	Leu	Thr	Ser	Ser	Phe	Gly	Thr	Ile	Leu	Arg	Lys	Cys	Ser	Arg
1105				660				-	665			,	-	670		
1106	Asn	Glu	Thr	Cys	Ser	Asn	Asn	Thr	Val	Ile	Ser	Gln	Asp	Leu	Asp	Tyr
1107			675	_				680					685		-	-
1108	Lys	Glu	Ala	Lys	Cys	Asn	Lys	Glu	Lys	Leu	Gln	Leu	Phe	Ile	Thr	Pro
1109	-	690		-			695					700				



PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:54

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	1110	Glu 705	Ala	Asp	Ser	Leu	Ser 710	Cys	Leu	Gln	Glu	Gly 715	Gln	Cys	Glu	Asn		
	1111		T	a .	T	7		<i>α</i>	70	T 1 -	Ψ		01.	77 - 7	т	70.7 -	720	
	1112	Pro	гĀг	Ser	ьуs		val	ser	Asp	TTE		GLU	GIU	Val	ьец		Ата	
	1113	20. 7	~		-	725	~ 7		~	~	730	G 1		~	30	735		
	1114	Ala	Суѕ	His		val	GIn	Hls	Ser	_	Val	GLU	Tyr	Ser	_	Thr	Asp	
	1115				740					745					750		2	
	1116	Phe	Gln	Ser	Gln	Lys	Ser	Leu		Tyr	Asp	His	Glu		Ala	Ser	Thr	
	1117			755					760					765				
	1118	Leu	Ile	Leu	Thr	Pro	Thr	Ser	Lys	Asp	Val	Leu	Ser	Asn	Leu	Val	Met	
	1119		770					775					780					
	1120	Ile	Ser	Arg	Gly	Lys	Glu	Ser	Tyr	Lys	Met	Ser	Asp	Lys	Leu	Lys	Gly	
	1121	785					790					795					800	
	1122	Asn	Asn	Tyr	Glu	Ser	Asp	Val	Glu	Leu	Thr	Lys	Asn	Ile	Pro	Met	Glu	
	1123					805					810					815		
	1124	Lys	Asn	Gln	Asp	Val	Cys	Ala	Leu	Asn	Glu	Asn	Tyr	Lys	Asn	Val	Glu	
	1125				820					825					830			
	1126	Leu	Leu	Pro	Pro	Glu	Lys	Tyr	Met	Arg	Val	Ala	Ser	Pro	Ser	Arg	Lys	
	1127			835				_	840					845				
	1128	Val	Gln	Phe	Asn	Gln	Asn	Thr	Asn	Leu	Arg	Val	Ile	Gln	Lys	Asn	Gln	
	1129		850					855			-		860		-			
	1130	Glu	Glu	Thr	Thr	Ser	Ile	Ser	Lys	Ile	Thr	Val	Asn	Pro	Asp	Ser	Glu	
	1131	865					870		-			875			-		880	
	1132		Leu	Phe	Ser	Asp	Asn	Glu	Asn	Asn	Phe	Val	Phe	Gln	Val	Ala	Asn	
	1133					885					890					895		
	1134	G] 11	Ara	Asn	Asn	Leu	Ala	Leu	Glv	Asn	Thr	Lvs	Glu	Leu	His	Glu	Thr	
	1135		5		900				7	905		2			910			
	1136	Asn	T.eu	Thr		Val	Asn	G] 11	Pro		Phe	Lvs	Asn	Ser		Met	Val	
	1137	4101	шси	915	O <u>y</u> . O	V 44 12	11011	0,2,4	920			10	11011	925				
	1138	T. 🗕 11	Tur	Gly	Asn	Thr	Glv	Asn		Gln	Ala	Thr	Gln		Ser	T1e	Tays	
	1139	шси	930	OLy	тор	1111	CLY	935	дуо	O.L.II	1114		940	741	201	110		
	1140	T 170		Leu	V/al	Тτιν	Val		Δla	Glu	Gla	Asn		Asn	Ser	Val	T.vs	
	1141	945	ASP	пси	Val.	тут	950	пси	2114	Oiu	OLU	955	-1.y5	11011	DCL	val	960	
	1142		Hie	Ile	T.376	Mot		T. 🔾 11	Glv	Gln	Agn		T.vg	Ser	Asn	Tle		
	1143	OTII	1110	110	БуЗ	965	T 11T	110 a	O.L.y	0111	970	<b>1</b> 00	цур	001	1100	975	~~ <u>~</u>	
	1143	Lou	Zen	Ile	Nen		Tlo	Pro	Glu	T. 175		Δen	Asn	Tur	Met.		T.vs	
	1145	пец	MOII	110	980	шуз	1.1.6	110	Giu	985	11011	71511	715P	T Y T	990	11011	Lyo	
	1146	Trn	70 l a	Gly		T.011	Gly	Pro	Tle	_	Aen	His	Ser	Phe		Glv	Ser	
	1147	TTD	лта	995	пеа	neu	Ory	110	1000		21011	1110	DCI	1005		O± y	DOL	
	1148	Dho	Λνα	Thr	7.7.5	Sor	Λen	Ture			T.170	T.OII	Sor			Δen	Tle	
	1149	rite	1010		ATG	SeT	ASII	1015		110	цуз	шеи	1020		1113	771311	110	
	1150	Trra		Ser	T 1767	Mot	Dho			7 cm	Tlo	C 1 11			Tir	Dro	Thr	
	<b>1151</b>	1025	••	Ser	пуs	Mec	1030		цуз	дор	116	1035		OIII	<b>T</b> Å T	110	10	104
•				7/1 ->	Cua	T ~ 1			Val	7 an	Th r			Τ.Δ11	Aen	Aen		10 (
	1152	DGT.	TIGH	Ala	Cys	1045		TTG	val	USII	1050		мта	шeu	ASP	1055		
	1153	T	T	Lou	C 0.22			Clr	Car	Tla			7727	Sar	7\1 ~			
	1154	гЛЗ	пĀв	Leu			LTO	GTII	ser	1065		TIII	v a 1	Set	1070		пеп	
	1155	C1~	C	C ~ ~	1060		77 ~ 7	C ~ ~	7 ~~			7 ~~	Car	uia			Dro	
	1156	GTII	ser,	Ser 1075		νdΤ	val	ser			пλг	ASII	per.			TIIT	ETO	
	1157	C1-	Mah			00.00	T	C1~	1080		7\ ~~	900	7\ ~~	1085		Tou	Thr	
	1158	GTU	Mer	Leu	rne	ser	ьуѕ	GTII	ASP	LIJE	ASII	per	HSII	птр	HSII	пеп	T 11T	

6/25/01

file://C:\Crf3\Outhold\VsrI084471B.htm

E-->





DATE: 06/25/2001

TIME: 11:40:54

#### RAW SEQUENCE LISTING

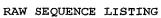
PATENT APPLICATION: US/09/084,471B

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

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	1160	Pro Ser	Gln	Lys .	Ala	Glu	Ile	Thr	Glu	Leu	Ser	Thr	Ile	Leu	Glu	Glu			
E>	1161	1105		-		1110	)				1115	5			(	112)	1/20		
	1162	Ser Gly	Ser	Gln	Phe	Glu	Phe	Thr	Gln	Phe	Arg	Lys	Pro	Ser	Tyr	Ile			
	1163				1125	5				1130	)				1135	5			
	1164	Leu Gln																	
	1165			1140					1145	5				1150	)				
	1166	Lys Thr	Thr	Ser	Glu	Glu	Cys	Arg	Asp	Ala	Asp	Leu	His	Val	Ile	Met		لىرى .	
	1167		1155					1160	)				1165	5			1	N.	1
	1168	Asn Ala	Pro	Ser	Ile	Gly	Gln	Val	Asp	Ser	Ser	Lys	Gln	Phe	Glu	Gly	- / *	~	D
	1169	1170	0				1175	5				1180	)				· · · /	$_{n}\mathcal{N}^{\mathcal{O}}$	
	1170	Thr Val	Glu	Ile	Lys	Arg	Lys	Phe	Ala	Gly	Leu	Leu	Lys	Asn	Asp	Cys -	<i>)</i>	u	
E>	1171	1185			~	1190	)	-		~	1195	5	<b>~</b> 1	** 7	<u> </u>	120/	200 (		
	1172	Asn Lys	Ser.	Ala	Ser	GLY	Tyr	Leu	Thr	Asp	GLU	Asn	GLU	vaı	GLY	Pne .			
	1173	7 Cl	13] 1	m	1205	7.7	111.4 ~	C1	(T) la no	1210	J T 0.2	71	77-7	Com	TZ1:	) (1)			
	1174	Arg Gly	Pne	1320	ser	Ата	HIS	СΤΆ	100	туѕ	теи	ASII	۷aı	1030	TIIT.	GLU			
	1175 1176	Ala Leu	Cln	1220	7/1/2	T = 17	Twe	T (21)	Dho	Sar	7\ en	Tla	Glu	1230	, Tlo	Sar			
	1177	Lys Thr Asn Ala 1170 Thr Val 1185 Asn Lys Arg Gly Ala Leu	1235	шуз .	Ата	val	пуз	1240	1116	SET	изр	1.10	124	YOII	T.T.C	DET			
	1178	Glu Glu	Thr	Ser	ΔΊа	Glu	Val	His	Pro	Tle	Ser	T.e.ii	Ser	Ser	Ser	Lvs			
	1179	1250		OCL .	1114	O.L.u.	1255		110		501	1260		DOL		27.5			
	1180	Cys His	-	Ser	Val	Val			Phe	Tivs	Ile			His	Asn	Asp			
E>		1265				1270				-1-	1275					128			
	1182	Lys Thr	Val	Ser	Glu			Asn	Lys	Cys			Ile	Leu	Gln	Asn			
	1183	_			1285				-	1290					1295	_			
	1184	Asn Ile	Glu I	Met	Thr	Thr	Gly	Thr	Phe	Val	Glu	Glu	Ile	Thr	Glu	Asn			
	1185			1300					1305	5				1310	)				
	1186	Tyr Lys	Arg :	Asn	Thr	Glu	Asn	Glu	Asp	Asn	Lys	Tyr	Thr	Ala	Ala	Ser			
	1187		1315					1320					1325						
	1188	Arg Asn	Ser :	His .	Asn	Leu			Asp	Gly	Ser			Ser	Lys	Asn			
	1189	1330				•	1335				_	1340		,					
	1190	*	Val	Cys	Ile			Asp	GLu	Thr			Leu	Phe	Thr				
E>	1191	1345	-	~ 7	~	1350		+	~	<b>C1</b>	1355		M . I	<b>7</b>	Q1	136			
	1192	Gln Hìs	Asn .				гÀг	Leu	Ser			Pne	мет	гàг					
	1193 1194	Zon The	Cln.		1365		7) an	T 011	Sor	1370		Thr	Dho	Τ Δ11	1375				
	1194	Asn Thr		1380		GIU	Asp	пеп	1385		пеи	TIIL	1116	1390		val			
	1196	Ala Lys				Ala	Cvs	His			Thr	Ser	Asn			Gln		1	
	1197	ита пуз	1395		O.L.u	1114	СуБ	1400		21011	7 1 L	501	1405		014	02.11			
	1198	Leu Thr			Lvs	Thr	Glu			Ile	Lvs	Asp			Thr	Ser			
	1199	1410			-2-		1415				-4	1420							
	1200	Asp Thr		Phe	Gln	Thr			Gly	Lys	Asn	Ile	Ser	Val	Ala	Lys			
E>		1425				1430				-	1435					144			
	1202	Glu Ser	Phe :	Asn	Lys	Ile	Val	Asn	Phe	Phe	Asp	Gln	Lys	Pro	Glu	Glu			
	1203				1445	; )				1450	)				1455	,			
	1204	Leu His	Asn	Phe	Ser	Leu	Asn	Ser	Glu	Leu	His	Ser	Asp			Lys			
	1205			1460					1465					1470					
		Asn Lys		-	Ile	Leu	Ser	_		Glu	Thr	Asp			Lys	His			
	1207		1475					1480	)				1485	)					





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Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	1208 1209	Lys	Ile 1490		Lys	Glu	Ser	Val 1495		Val	Gly	Thr	Gly 1500		Gln	Leu	Val
E>	1210	Thr. 1505	Phe	Gln	Gly	Gln	Pro 1510		Arg	Asp	Glu	Lys <b>1515</b>		Lys	Glu	Pro	Thr 152
	1212 1213		Leu	Gly	Phe	His 1525	Thr		Ser	Gly	Lys 1530	Lys		Lys	Ile	Ala 1535	Lys
	1214 1215	Glu	Ser	Leu	Asp 1540	Lys		Lys	Asn	Leu 1545	Phe		Glu	Lys	Glu 1550	Gln	
	1216 1217	Thr	Ser	Glu 1555	Ile		Ser	Phe	Ser 1560	His		Trp	Ala	Lys 1565	Thr		Lys
	1218	Tyr	Arg	Glu		Cys	Lys	Asp 1575	Leu		Leu		Cys 1580	Glu		Ile	Glu
	1219 1220.		1570 Thr		Ala	Pro	-	Cys		Glu	Met	Gln	Asn		Leu	Asn	
E>		1585		70	T	77-7	1590		C1	m1	77- 7	1595		Dage	T ***	Т оль	160
	1222	-	Lys			1605	5				1610	)				1615	5
	1224 1225		Asp		1620	)	_			1625	5				1630	)	
	1226 1227		Phe	1635	5				1640	)				1645	)		
	1228 1229	-4	Ser 1650	)			-	1655	5 .				1660	)			
E>	1230 <b>1231</b>	Glu <b>166</b> 5	Asn 5	Ser	Ala	Leu	Ala <b>167</b> 0		Tyr		Ser	Cys <b>1675</b>		Arg	Lys	Thr	Ser <b>168</b>
	1232 1233	Val	Ser	Gln	Thr	Ser 1685		Leu	Glu	Ala	Lys 1690		Trp	Leu	Arg	Glu 1695	
	1234 1235	Ile	Phe	Asp	Gly 1700	Gln		Glu	Arg	Ile 1705		Thr	Ala	Asp	Tyr 1710		Gly
	1236 1237	Asn	Tyr	Leu 1715	Tyr		Asn	Asn	Ser 1720	Asn		Thr	Ile	Ala 1725		Asn	Asp
	1238 1239	Lys	Asn 1730	His		Ser	Glu	Lys 1735	Gln		Thr	Tyr	Leu 1740	Ser		Ser	Ser
E>	1240	Met <b>1745</b>	Ser		Ser	Tyr	Ser <b>175</b> 0	Tyr		Ser	Asp	Glu <b>1755</b>	Val		Asn	Asp	Ser <b>176</b>
-	1242 1243		Tyr	Leu	Ser	Lys 1765	Asn		Leu		Ser 1770	Gly		Glu	Pro	Val 1775	Leu
	1244 1245	Lys	Asn	Val	Glu 1780	Asp		Lys	Asn		Ser		Ser	Lys	Val 1790	Ile	
	1246 1247	Asn	Val	Lys 1795	Asp		Asn	Ala	Tyr 1800	Pro		Thr	Val	Asn 1805	Glu		Ile
	1248 1249	Cys	Val 1810	Glu		Leu	Val	Thr 1815	Ser		Ser	Pro	Cys 1820		Asn	Lys	Asn
E>	1250	Ala <b>182</b> 5	Ala		Lys	Leu	Ser 1830	Ile		Asn	Ser	Asn 1835		Phe	Glu	Val	Gly <b>184</b>
	1252 1253		Pro	Ala	Phe	Arg 1845	Ile		Ser		Lys 1850	Ile		Cys	Val	Ser 1859	His
	1254 1255	Glu	Thr	Ile	Lys 1860	Lys		Lys	Asp		Phe		Asp	Ser	Phe 1870	Ser	
	1256	Val	Ile	Lys			Asn	Glu	Asn			Lys	Ile	Суѕ			Lys

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Input Set : A:\G150581u.txt
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	1257			187	75				188	30				188	5		
	1258	$Il\epsilon$	e Met	. Ala	a Gly	7 Cys	Tvr	Glu	ı Ala	a Lei	ı Asr	λer	Ser	. Glu	, Aar	. T10	Leu
	1259		189	90		-	_	189	15		1101	, 1101	190		, war	, 116	теи
	1260	His	s Asr	ı Ser	. Leu	ı Asp	Asr			Cve	s Ser	Thr	. II .			T	Val
E>	> 1261	190	)5				191	ິດ	01	z Oyı	001	191	E 11TS	s ser	nis	гуѕ	
	1262	Phe	e Ala	a Asr	Tle	Gln			Cl.	1 Tla	. T ou	191	. <b></b> 	. 70	<b>a</b> 1	-75	<b>192</b> Met
	1263				, 110	192	5	OLU	ı Gı.	и тт <i>е</i>	103	r GTI	Hls	: Asn	. Gln		
	1264	Ser	Glv	7 T.e.1	. Glu			Sor	T 17.	, Tl-	193	. D	~			193	5
	1265		1		194	. Lys	val	. Der	пλε	1 ∩ 4	e ser	Pro	Cys	Asp			Leu
	1266	Gli	Thr	Sor			Crra	T	C	194	15	~ 3	_		195	0	
	1267	010		195	. Asp	TTE	Cys	гуз	cys	sser	TTe	GT Y	Lys	Leu	His	Lys	Ser
	1268	Wal	Sor			7)	m1	<b>a</b> -	196	»U		_		196	5		
	1269	val	197	Ser	Ala	ASII	Thr	Cys	_ GT A	TTE	Phe	Ser	Thr	Ala	Ser	Gly	Lys
	1270	Com		-	** . 7	~	_	197	5				198	0			
₽	1270	261	va 1	GIN	val	Ser	Asp	_Ala	Ser	Leu	Gln	Asn	Ala	Arg	Gln	Val	Phe
E>	1271						199					199	5				200
		ser	GLU	TTe	Glu	Asp	Ser	Thr	Lys	Gln	Val	Phe	Ser	Lys	Val	Leu	Phe
	1273					200	5				201	0				201	5
	1274	ьуs	Ser	Asn	Glu	His	Ser	Asp	Gln	Leu	Thr	Arg	Glu	Glu	Asn	Thr	Ala
	1275				202	U				202	5				203	Λ	
	1276	Ile	Arg	Thr	Pro	Glu	His	Leu	Ile	Ser	Gln	Lys	Gly	Phe	Ser	Tyr	Asn
	1277			203	5				204	0				204	5		
	1278	Val	Val	Asn	Ser	Ser	Ala	Phe	Ser	Gly	Phe	Ser	Thr	Ala	Ser	Glv	Lvs
	1279		205	U				2055	5				2060	Ω			
	1280	Gln	Val	Ser	Ile	Leu	Glu	Ser	Ser	Leu	His	Lys	Val	Lvs	Glv	Val	Len
E>	1281	206	5				2070	)				2075	5				208
	1282	Glu	Glu	Phe	Asp	Leu	Ile	Arg	Thr	Glu	His	Ser	Leu	His	Tvr	Ser	Pro
	1283					2085	)				2090	) '				2095	;
	1284	Thr	Ser	Arg	Gln	Asn	Val	Ser	Lys	Ile	Leu	Pro	Ara	Val	Asp	Lvs	Ara
	1285				2100	)				2105	5				2110	)	
	1286	Asn	Pro	Glu	His	Cys	Val	Asn	Ser	Glu	Met	Glu	Lvs	Thr	Cvs	Ser	Lvs
	1287			- ZII;	)				2120	) .				2125	·		
	1288	Glu	Phe	Lys	Leu	Ser	Asn	Asn	Leu	Asn	Val	Glu	Glv	Glv	Ser	Ser	Glu
	1289		2130	) .				2135	·				2140	)			
	1290	Asn	Asn	His	Ser	Ile	Lys	Val	Ser	Pro	Tvr	Leu	Ser	Gln	Phe	Gln	Gln
E>	1291	2145	2				2150	)				2155	;				216
	1292	Asp	Lys	Gln	Gln	Leu	Val	Leu	Gly	Thr	Lvs	Val	Ser	Leu	Val	Glu	Asn
	1293					2165			_		2170	)			V C4.11	2175	
	1294	Ile	His	Val	Leu	Gly	Lvs	Glu	Gln	Ala	Ser	Pro	LVS	Asn	[ c 17	T T C	Mo+
	1295				2180	, -	_			2185	;		L y U	11011	2190		Mec
	1296	Glu	Ile	Gly	Lys					Ser	Asn	Val	Dro	V21	Z 130	ሞኤ ኤ	7\ ~ ~
	1297			2195	5				2200	)	тър	val	FLO	2205	гуз	IIII.	ASI
	1298	Ile	Glu	Val	Cvs	Ser	Thr	Tur	Ser	T.370	7\ an	902	C1	7.25	m	DI.	a i
	1299		2210	)	-10		<u></u>	2215	DCI	пуз	Азр	ser	2220	ASII	Tyr	Pne	GLU
	1300	Thr			Val	Glu	Tlo	Δ1 <sub>3</sub>	Two	7 7 ~	Dho	No. t-	222U	70 -	<b>'n</b>	~ 7	_
E>		2225		11110	Val	CIU	2230	лта	туѕ	Ala	Pne	Met	GLU	Asp	Asp		
	1302			Ser	T.vc	T 011	223U	C - 22	II di co	70 71 -	m1.	2235	~	_			224
	1303	** 4 4 4.	11010	201	Lys	2245	ETO	oer.	UTS	нта	Inr	HlS	ser	Leu			Cys
	1304	Pro	Glu	Asn	Glas	4440 Clussi	Mo+	τ <i>τ</i> ~ τ	т	O + ·-	2250	~		1		2255	
	1305	- <b>-</b> O	JIU	7.7011	Glu 2260	GIU !	met	val.	ьeu	ser	Asn	ser .	Arg			Lys i	Arg
					~ ~ 00					2265					2270		



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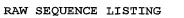
Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	1306 1307	Arg	Gly	Glu 2275		Leu	Ile	Leu	Val 228	_	Glu	Pro		Ile 2285	_	Arg	Asn
	1308 1309	Leu	Leu 2290		Glu	Phe	Asp	Arg 2295		Ile	Glu	Asn	Gln 2300		Lys	Ser	Leu
E>	1310 <b>1311</b>	Lys <b>230</b> 5		Ser	Lys	Ser	Thr 2310		Asp	Gly	Thr	Ile 2315		Asp	Arg	Arg	Leu <b>232</b>
-	1312 1313			His	His	Val 2325	Ser		Glu	Pro	Ile 2330	Thr		Val	Pro	Phe 2335	Arg
	1314 1315	Thr	Thr	Lys	Glu 2340	Arg	Gln	Glu		Gln 2345	Asn		Asn	Phe		Ala	
	1316	Gly	Gln		Phe	Leu			Ser	His		Tyr	Glu				Leu
	1317	~ 3	_	2355			-	_	2360		~	<b>~</b> 3		2365		m	<b>~</b> 7
	1318 1319		2370	)		Ser		2375	5				2380	)			
	1320			Ala	Thr	Arg			Lys	Met				Ile	Thr	Thr	
E>	1321	2385					2390					2395					240
	1322	Arg	Pro	Thr	Lys	Val		Val	Pro	Pro			Thr	Lys	Ser		
	1323					2405					2410					2415	
	1324	His	Arg	Val		Gln	Cys	Val	Arg			Asn	Leu	Glu			Arg
	1325	~ •	_	4	2420					2425		_	_	~	2430		
	1326	Gln	Lys			Ile	Asp	Gly			Ser	Asp	Asp			Asn	Lys
	1327	<b>-</b> 1	78	2435		G.7			244(		Th.	-	70	2445		-	<i>α</i> 3.
	1328	TTE		_	Asn	Glu	тте			Pne	Asn	-			ser	Asn	GIN
	1329	70.7 _	2450		x7_ 1	(T) lo an	Dlan	2455		Chra	C1		2460		т о	7\~~	T 0.17
	1330			Ala	val	Thr			гаг	Cys	Gru			PLO	ьеи	Asp	цец
T3 >	4 2 2 4	246	-				2470	`				2/75	•				210
E>		2465		Cox	Tou	Cla	2470		7\ ~~ ~	7, 0, 20	Tlo	2475		Mot	71 20 00	Tlo	248
E>	1332			Ser	Leu	Gln	Asn		Arg			Gln		Met	Arg		Lys
E>	1332 1333	Ile	Thr			2485	Asn	Ala			2490	Gln	Asp			2495	Lys
E>	1332	Ile	Thr			2485 Gln	Asn	Ala			2490 Gln	Gln	Asp			2495 Tyr	Lys
E>	1332 1333 1334	Ile Lys	Thr Lys	Gln	Arg 2500	2485 Gln )	Asn Arg	Ala Val	Phe	Pro 2505	2490 Gln	Gln ) Pro	Asp Gly	Ser	Leu 2510	2495 Tyr )	Lys Leu
E>	1332 1333 1334 1335	Ile Lys	Thr Lys	Gln	Arg 2500 Ser	2485 Gln	Asn Arg	Ala Val	Phe	Pro 2505 Ile	2490 Gln	Gln ) Pro	Asp Gly	Ser	Leu 2510 Ala	2495 Tyr )	Lys Leu
E>	1332 1333 1334 1335 1336	Ile Lys Ala	Thr Lys Lys	Gln Thr 2515	Arg 2500 Ser	2485 Gln )	Asn Arg Leu	Ala Val Pro	Phe Arg 2520	Pro 2505 Ile	2490 Gln Ser	Gln ) Pro Leu	Asp Gly Lys	Ser Ala 2525	Leu 2510 Ala	2495 Tyr ) Val	Lys Leu Gly
E>	1332 1333 1334 1335 1336 1337	Ile Lys Ala Gly	Thr Lys Lys Gln 2530	Gln Thr 2515 Val	Arg 2500 Ser Pro	2485 Gln ) Thr	Asn Arg Leu Ala	Ala Val Pro Cys 2535	Phe Arg 2520 Ser	Pro 2505 Ile ) His	2490 Gln Ser Lys	Gln ) Pro Leu Gln	Asp Gly Lys Leu 2540	Ser Ala 2525 Tyr	Leu 2510 Ala Thr	2499 Tyr ) Val Tyr	Lys Leu Gly
E>	1332 1333 1334 1335 1336 1337 1338	Ile Lys Ala Gly	Thr Lys Lys Gln 2530	Gln Thr 2515 Val	Arg 2500 Ser Pro	2485 Gln ) Thr	Asn Arg Leu Ala	Ala Val Pro Cys 2535	Phe Arg 2520 Ser	Pro 2505 Ile ) His	2490 Gln Ser Lys Ser	Gln Pro Leu Gln Lys	Asp Gly Lys Leu 2540 Asn	Ser Ala 2525 Tyr	Leu 2510 Ala Thr	2499 Tyr ) Val Tyr	Lys Leu Gly Gly
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b>	Ile Lys Ala Gly Val 2545	Thr Lys Lys Gln 2530 Ser	Gln Thr 2515 Val ) Lys	Arg 2500 Ser Pro	2485 Gln Thr Ser Cys	Asn Arg Leu Ala Ile <b>255</b> 0	Ala Val Pro Cys 2535 Lys	Phe Arg 2520 Ser The	Pro 2505 Ile ) His Asn	Gln Ser Lys Ser	Gln Pro Leu Gln Lys 2555	Asp Gly Lys Leu 2540 Asn	Ser Ala 2525 Tyr ) Ala	Leu 2510 Ala 5 Thr	2495 Tyr ) Val Tyr	Lys Leu Gly Gly Phe 256
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342	Ile Lys Ala Gly Val 2545	Thr Lys Lys Gln 2530 Ser	Gln Thr 2515 Val ) Lys	Arg 2500 Ser Pro	2485 Gln Thr Ser Cys	Asn Arg Leu Ala Ile 2550 Asp	Ala Val Pro Cys 2535 Lys	Phe Arg 2520 Ser The	Pro 2505 Ile ) His Asn	2490 Gln Ser Lys Ser	Gln Pro Leu Gln Lys 2555	Asp Gly Lys Leu 2540 Asn	Ser Ala 2525 Tyr ) Ala	Leu 2510 Ala 5 Thr	2495 Tyr Val Tyr Ser	Lys Leu Gly Gly Phe 256 Gly
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343	Ile Lys Ala Gly Val 2545 Gln	Lys Lys Gln 2530 Ser Phe	Gln Thr 2515 Val ) Lys His	Arg 2500 Ser Pro His	2485 Gln Thr Ser Cys Glu 2565	Asn Arg Leu Ala Ile 2550 Asp	Ala Val Pro Cys 2535 Lys Tyr	Phe Arg 2520 Ser Ile Phe	Pro 2505 Ile His Asn	2490 Gln Ser Lys Ser Lys 2570	Gln Pro Leu Gln Lys 2555 Glu	Asp Gly Lys Leu 2540 Asn Ser	Ser Ala 2525 Tyr ) Ala Leu	Leu 2510 Ala Thr Glu	2495 Tyr Val Tyr Ser Thr 2575	Lys Leu Gly Gly Phe 256 Gly
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343	Ile Lys Ala Gly Val 2545 Gln	Lys Lys Gln 2530 Ser Phe	Gln Thr 2515 Val ) Lys His	Arg 2500 Ser Pro His Thr	2485 Gln Thr Ser Cys Glu 2565 Leu	Asn Arg Leu Ala Ile 2550 Asp	Ala Val Pro Cys 2535 Lys Tyr	Phe Arg 2520 Ser Ile Phe	Pro 2505 Ile ) His Asn Gly	2490 Gln Ser Lys Ser Lys 2570	Gln Pro Leu Gln Lys 2555 Glu	Asp Gly Lys Leu 2540 Asn Ser	Ser Ala 2525 Tyr ) Ala Leu	Leu 2510 Ala Thr Glu Trp	2495 Tyr Val Tyr Ser Thr 2575 Asn	Lys Leu Gly Gly Phe 256 Gly
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345	Lys Ala Gly Val 2545 Gln Lys	Thr Lys Lys Gln 2530 Ser Phe Gly	Gln Thr 2515 Val Lys His	Arg 2500 Ser Pro His Thr Gln 2580	2485 Gln Thr Ser Cys Glu 2565 Leu	Asn Arg Leu Ala Ile 2550 Asp Ala	Ala Val Pro Cys 2535 Lys Tyr Asp	Phe Arg 2520 Ser Ile Phe Gly	Pro 2505 Ile ) His Asn Gly Gly 2585	2490 Gln Ser Lys Ser Lys 2570 Trp	Gln Pro Leu Gln Lys 2555 Glu Leu	Asp Gly Lys Leu 2540 Asn Ser	Ser Ala 2525 Tyr Ala Leu	Leu 2510 Ala Thr Glu Trp Ser 2590	2495 Tyr Val Tyr Ser Thr 2575 Asn	Lys Leu Gly Gly Phe 256 Gly Asp
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345	Lys Ala Gly Val 2545 Gln Lys	Thr Lys Lys Gln 2530 Ser Phe Gly	Gln Thr 2515 Val Lys His Ile Ala	Arg 2500 Ser Pro His Thr Gln 2580 Gly	2485 Gln Thr Ser Cys Glu 2565 Leu	Asn Arg Leu Ala Ile 2550 Asp Ala	Ala Val Pro Cys 2535 Lys Tyr Asp	Phe Arg 2520 Ser Ile Phe Gly Phe	Pro 2505 Ile ) His Asn Gly Gly 2585 Tyr	2490 Gln Ser Lys Ser Lys 2570 Trp	Gln Pro Leu Gln Lys 2555 Glu Leu	Asp Gly Lys Leu 2540 Asn Ser	Ala 2525 Tyr Ala Leu Pro	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp	2495 Tyr Val Tyr Ser Thr 2575 Asn	Lys Leu Gly Gly Phe 256 Gly Asp
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347	Lys Ala Gly Val 2545 Gln Lys Gly	Lys Lys Gln 2530 Ser Fhe Gly Lys	Gln Thr 2515 Val Lys His Ile Ala 2595	Arg 2500 Ser Pro His Thr Gln 2580 Gly	2485 Gln Thr Ser Cys Glu 2565 Leu )	Asn Arg Leu Ala Ile 2550 Asp Ala Glu	Ala Val Pro Cys 2535 Lys Tyr Asp Glu	Phe Arg 2520 Ser Ile Phe Gly Phe 2600	Pro 2505 Ile ) His Asn Gly Gly 2585 Tyr	2490 Gln Ser Lys Ser Lys 2570 Trp	Gln Pro Leu Gln Lys 2555 Glu Leu Ala	Asp Gly Lys Leu 2540 Asn Ser Ile Leu	Ala 2525 Tyr Ala Leu Pro Cys 2605	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp	2495 Tyr ) Val Tyr Ser Thr 2575 Asn )	Lys Leu Gly Gly Phe 256 Gly Asp
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347	Lys Ala Gly Val 2545 Gln Lys Gly	Lys Lys Gln 2530 Ser Fhe Gly Lys Val	Gln Thr 2515 Val Lys His Ile Ala 2595 Asp	Arg 2500 Ser Pro His Thr Gln 2580 Gly	2485 Gln Thr Ser Cys Glu 2565 Leu	Asn Arg Leu Ala Ile 2550 Asp Ala Glu	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser	Pro 2505 Ile ) His Asn Gly Gly 2585 Tyr	2490 Gln Ser Lys Ser Lys 2570 Trp	Gln Pro Leu Gln Lys 2555 Glu Leu Ala	Asp Gly Lys Leu 2540 Asn Ser Ile Leu Val	Ala 2525 Tyr Ala Leu Pro Cys 2605	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp	2495 Tyr ) Val Tyr Ser Thr 2575 Asn )	Lys Leu Gly Gly Phe 256 Gly Asp
	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347 1348	Lys Ala Gly Val 2545 Gln Lys Gly Gly	Lys Lys Gln 2530 Ser Gly Lys Val 2610	Gln Thr 2515 Val Lys His Ile Ala 2595 Asp	Arg 2500 Ser Pro His Thr Gln 2580 Gly	2485 Gln Thr Ser Cys Glu 2565 Leu Lys	Asn Arg Leu Ala Ile 2550 Asp Ala Glu Leu	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile 2615	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser	Pro 2505 Ile His Asn Gly 2585 Tyr Arg	2490 Gln Ser Lys Ser Lys 2570 Trp Arg	Gln Pro Leu Gln Lys 2555 Glu Leu Ala	Asp Gly Lys Leu 2540 Asn Ser Ile Leu Val 2620	Ala 2525 Tyr Ala Leu Pro Cys 2605 Tyr	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp	2495 Tyr  Val Tyr  Ser Thr 2575 Asn  Thr	Lys Leu Gly Gly Phe 256 Gly Asp Pro
E>	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347 1348 1349 1350	Lys Ala Gly Val 2545 Gln Lys Gly Gly Arg	Lys Lys Gln 2530 Ser 6 Phe Gly Lys Val 2610 Trp	Gln Thr 2515 Val Lys His Ile Ala 2595 Asp	Arg 2500 Ser Pro His Thr Gln 2580 Gly	2485 Gln Thr Ser Cys Glu 2565 Leu )	Asn Arg Leu Ala Ile 2550 Asp Ala Glu Leu Lys	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile 2615 Leu	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser	Pro 2505 Ile His Asn Gly 2585 Tyr Arg	2490 Gln Ser Lys Ser Lys 2570 Trp Arg	Gln Pro Leu Gln Lys 2555 Glu Leu Ala Trp Glu	Asp Gly Lys Leu 2540 Asn Ser Ile Leu Val 2620 Cys	Ala 2525 Tyr Ala Leu Pro Cys 2605 Tyr	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp	2495 Tyr  Val Tyr  Ser Thr 2575 Asn  Thr	Lys Leu Gly Gly Phe 256 Gly Asp Pro Tyr Lys
E>	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347 1348 1349 1350 <b>1351</b>	Lys Ala Gly Val 2545 Gln Lys Gly Gly Arg 2625	Lys Lys Gln 2530 Ser Phe Gly Lys Val 2610 Trp	Thr 2515 Val Lys His Ile Ala 2595 Asp	Arg 2500 Ser Pro His Thr Gln 2580 Gly Pro	2485 Gln Thr Ser Cys Glu 2565 Leu Lys Lys Trp	Asn Arg Leu Ala Ile 2550 Asp Ala Glu Leu Lys 2630	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile 2615 Leu D	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser Ala	Pro 2505 Ile His Asn Gly 2585 Tyr Arg	2490 Gln Ser Lys Ser Lys 2570 Trp Arg	Gln Pro Leu Gln Lys 2555 Glu Leu Ala Trp Glu 2635	Asp Gly Lys Leu 2540 Asn Ser Ile Leu Val 2620 Cys	Ala 2525 Tyr Ala Leu Pro Cys 2605 Tyr Ala	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp Asn Phe	2495 Tyr ) Val Tyr Ser Thr 2575 Asn ) Thr His	Lys Leu Gly Gly Phe 256 Gly Asp Pro Tyr Lys 264
E>	1332 1333 1334 1335 1336 1337 1338 1339 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347 1348 1349 1350 <b>1351</b> 1352	Lys Ala Gly Val 2545 Gln Lys Gly Gly Arg 2625	Lys Lys Gln 2530 Ser Phe Gly Lys Val 2610 Trp	Thr 2515 Val Lys His Ile Ala 2595 Asp	Arg 2500 Ser Pro His Thr Gln 2580 Gly Pro	2485 Gln ) Thr Ser Cys Glu 2565 Leu ) Lys Trp Arg	Asn Arg Leu Ala Ile 2550 Asp Ala Glu Leu Lys 2630 Cys	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile 2615 Leu D	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser Ala	Pro 2505 Ile His Asn Gly 2585 Tyr Arg	2490 Gln Ser Lys Ser Lys 2570 Trp Arg Ile Met	Gln Pro Leu Gln Lys 2555 Glu Leu Ala Trp Glu 2635 Arg	Asp Gly Lys Leu 2540 Asn Ser Ile Leu Val 2620 Cys	Ala 2525 Tyr Ala Leu Pro Cys 2605 Tyr Ala	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp Asn Phe	2495 Tyr  Val  Tyr  Ser Thr 2575 Asn  Thr  His  Pro	Lys Leu Gly Gly Phe 256 Gly Asp Pro Tyr Lys 264 Leu
E>	1332 1333 1334 1335 1336 1337 1338 1340 <b>1341</b> 1342 1343 1344 1345 1346 1347 1348 1349 1350 <b>1351</b>	Lys Ala Gly Val 2545 Gln Lys Gly Gly Arg 2625 Glu	Lys Lys Gln 2530 Ser Fhe Gly Lys Val 2610 Trp Phe	Thr 2515 Val ) Lys His Ile Ala 2595 Asp ) Ile	Arg 2500 Ser Pro His Thr Gln 2580 Gly Pro Ile	2485 Gln Thr Ser Cys Glu 2565 Leu Lys Lys Trp	Asn Arg Leu Ala Ile 2550 Asp Ala Glu Leu Lys 2630 Cys	Ala Val Pro Cys 2535 Lys Tyr Asp Glu Ile 2615 Leu Leu	Phe Arg 2520 Ser Ile Phe Gly Phe 2600 Ser Ala	Pro 2505 Ile His Asn Gly 2585 Tyr Arg Ala Pro	2490 Gln Ser Lys Ser Lys 2570 Trp Arg Ile Met	Gln Pro Leu Gln Lys 2555 Glu Leu Ala Trp Glu 2635 Arg	Asp Gly Lys Leu 2540 Asn Ser Ile Val 2620 Cys	Ala 2525 Tyr Ala Leu Pro Cys 2605 Tyr Ala Leu	Leu 2510 Ala Thr Glu Trp Ser 2590 Asp Asn Phe Leu	2495 Tyr  Val  Tyr  Ser  Thr 2575 Asn  Thr  His  Pro  Gln 2655	Lys Leu Gly Gly Phe 256 Gly Asp Pro Tyr Lys 264 Leu

Jane





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Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	1355				2660	)				2665	5				2670	)	
	1356	Lys	Lys	Ile			Arq	Asp	Asp		_	Ala	Lys	Thr	Leu	Val	Leu
	1357	_	, -	2675				-	2680					2685			
	1358	Cys	Val	Ser	Asp	Ile	Ile	Ser	Leu	Ser	Ala	Asn	Ile	Ser	Glu	Thr	Ser
	1359	_	2690					2695					2700				
	1360	Ser	Asn	Lys	Thr	Ser	Ser	Ala	Asp	Thr	Gln	Lys	Val	Ala	Ile	Ile	Glu
E>	1361	270!	5				2710	)				2715	5				272
	1362	Leu	Thr	Asp	Gly	Trp	Tyr	Ala	Val	Lys	Ala	Gln	Leu	Asp	Pro	Pro	Leu
	1363					2725	5			_	2730	)				2735	j .
	1364	Leu	Ala	Val	Leu	Lys	Asn	Gly	Arg	Leu	Thr	Val	Gly	Gln	Lys	Ile	Ile
	1365				2740	)				2745	5				2750	)	
	1366	Leu	His	Gly	Ala	Glu	Leu	Val	Gly	Ser	Pro	Asp	Ala	Cys	Thr	Pro	Leu
	1367			2755	õ				2760	)				2765	5 .		
	1368	Glu	Ala	Pro	Glu	Ser	Leu	Met	Leu	Lys	Ile	Ser	Ala	Asn	Ser	Thr	Arg
	1369		2770					2775					2780				
	1370	Pro	Ala	Arg	Trp	Tyr	Thr	Lys	Leu	Gly	Phe	Phe	Pro	Asp	Pro	Arg	Pro
E>	1371	278					2790					2795					280
	1372	Phe	Pro	Leu	Pro			Ser	Leu	Phe		-	Gly	Gly	Asn		
	1373			_		2805			_		2810		~ 7	~ 3		2815	
	1374	Cys	Val	Asp			Ile	Gln	Arg			Pro	lle	Gln			GLu
	1375				2820			_		2825		_	a. 11		2830		(
	1376	Lys	Thr			GLy	Leu	Tyr			Arg		Glu			Glu	GLu
	1377	<b>.</b>		2835		T	<b>60</b>		2840		Q1	C1	T	2845		C1	7\ 7\ ~
	1378	ьуs			Ата	гÀг	Tyr	Val		Ала	GIN	GIII	ьуs 2860		ьеи	GIU	Ald
	1379 1380	Tou	2850		T 170	Tlo	Cln	2855 Glu		Dho	C111	Clu			Glu	λan	Thr
E .	1381	286!		TIIT	тур	TTG	2870		Gru	rne	GIU	2875		Gru	Giu	ASII	288
E>	1382			Pro	Тиг	T. 🗕 11		Ser	Δrα	Δla	T.011			Gln	Gln	Val	
	1383	T 11T	пур	LIO	тАт	2885		DCI	111 9	1110	2890		1119	OLII	OIII	2895	
	1384	Ala	Len	Gln	Asn			Glu	Leu	Tvr			Val	Lvs	Asn		
	1385	21110	20 G	0111	2900			0.1.0	100	2905				j	2910		
	1386	Asp	Pro	Ala			Glu	Gly	Tvr			Glu	Glu	Gln	Leu	Ara	Ala
	1387	1.		2915	_				2920					2925		-	
	1388	Leu	Asn	Asn	His	Arg	Gln	Met	Leu	Asn	Asp	Lys	Lys	Gln	Ala	Gln	Ile
	1389		2930			_		2935			-	_	2940				
	1390	Gln	Leu	Glu	Ile	Arg	Lys	Ala	Met	Glu	Ser	Ala	Glu	Gln	Lys	Glu	Gln
E>	1391	2945				-	2950					295					296
	1392	Gly	Leu	Ser	Arg	Asp	Val	Thr	Thr	Val	Trp	Lys	Leu	Arg	Ile	Val	Ser
	1393					2965					2970					2975	
	1394	Tyr	Ser	Lys	Lys	Glu	Lys	Asp	Ser	Val	Ile	Leu	Ser	Ile	Trp	Arg	Pro
	1395				2980					2985					2990		
	1396	Ser	Ser	Asp	Leu	Tyr	Ser	Leu	Leu	Thr	Glu	Gly	Lys			Arg	Ile
	1397			299					3000					3005			
	1398	Tyr			Ala	Thr	Ser	Lys		Lys	Ser	Lys			Arg	Ala	Asn
	1399		3010					3015					3020			_	
	1400			Leu	Ala	Ala		Lys	Lys	Thr	Gln			Gln	Leu	Pro	
E>	1401	302					3030					303!		- 1	_	_	304
	1402	Ser	Asp	Glu	Ile			Gln	Ile	Tyr			Arg	Glu	Pro		
	1403					3045	2				3050	J				3055	)

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Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	1404 1405	Phe	Ser	Lys	Phe 3060		Asp	Pro	Asp	Phe 3065		Pro	Ser	Cys	Ser 3070		Val
	1406 1407	Asp	Leu	Ile 3075		Phe	V <u>a</u> l	Val	Ser 3080		Val	Lys	Lys	Thr 3085		Leu	Ala
	1408 1409	Pro	Phe 3090	Val		Leu	Ser	Asp 3095	Glu		Tyr	Asn	Leu 3100	Leu		Ile	Lys
E>	1410	Phe <b>310</b> 5	Trp		Asp	Leu	Asn <b>311</b> 0	Glu		Ile	Ile	Lys <b>3115</b>	Pro		Met	Leu	Ile <b>312</b>
	1412 1413		Ala	Ser	Asn	Leu 3125	Gln		Arg	Pro	Glu 3130	Ser		Ser	Gly	Leu 3135	Leu
	1414 1415	Thr	Leu	Phe		Gly		Phe	Ser	Val 3145	Phe		Ala	Ser	Pro 3150	Lys	
	1416	Gly	His				Thr	Phe		Lys		Lys	Asn		Val		Asn
	1417	Ile	Asp			Cys	Asn				Asn	Lys				Ile	Leu
	1419 1420		3170 Ala		Asp	Pro	_	_		Thr	Pro				Cys	Thr	Ser
E>		3185		<b>E</b> m	m1	n 7	3190		<b>T</b> 3	70	<b>G</b> 1	3195		70	78"	-	320
	1422	<del></del>	Pro	_		3205	5				3210	)	_		_	3215	,
	1424 1425		Ser		3220	)				3225	,				3230	)	
	1426 1427		Met	3235	<b>,</b>				3240	)				3245	Ď		
	1428 1429	Thr	Ser 3250	-	Ser	Суѕ	Lys	Gly 3255		Lys	Glu		Asp 3260		Gln	Lys	Asn
E>	1430 <b>1431</b>	Cys <b>326</b> 5	Lys 5	Lys	Arg	Arg	Ala <b>327</b> 0		Asp	Phe	Leu	Ser <b>3275</b>		Leu	Pro	Leu	Pro <b>328</b>
	1432 1433	Pro	Pro	Val	Ser	Pro 3285		Суѕ	Thr	Phe	Val 3290		Pro	Ala	Ala	Gln 3295	
	1434 1435	Ala	Phe	Gln	Pro 3300		Arg	Ser	Cys	Gly 3305		Lys	Tyr	Glu	Thr 3310		Ile
	1436 1437	Lys	Lys	Lys 3315		Leu	Asn	Ser	Pro 3320		Met	Thr	Pro	Phe 3325		Lys	Phe
	1438 1439	Asn	Glu 3330		Ser	Leu	Leu	Glu 3335	Ser		Ser	Ile	Ala 3340		Glu	Glu	Leu
	1440	Ala	Leu	Ile	Asn	Thr	Gln	Ala	Leu	Leu	Ser	Gly	Ser	Thr	Gly	Glu	Lys
E>		3345					3350					3355					336
	1442 1443	Gln	Phe	Ile	Ser	Val 3365		Glu	Ser	Thr	Arg 3370		Ala	Pro	Thr	Ser 3375	
	1444 1445	Glu	Asp	Tyr	Leu 3380	_	Leu	Lys	Arg	Arg 3385	-	Thr	Thr	Ser	Leu 3390		Lys
	1446 1447	Glu	Gln	Glu 3395		Ser	Gln	Ala	Ser 3400		Glu	Glu	_	Glu 3405		Asn	Lys
	1448	Gln	Asp		Ile	Thr	Thr	_		Tyr	Ile						
	1449		3410			•		3415									
	2337	(2) 1															
	2339		(i)				RACT				1_						
	2340			(A)	LEN	iGTH:	341	.8 am	uno	acıc	เร						

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Input Set :  $A:\G150581u.txt$ 

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					-			·			·						Λ
	2341			(B	) TY	PE:	amin	o ac	id							1	()
	2342			(C	) ST	RAND	EDNE	SS:	sing	le						- 1	٧l
	2343			(D	) TO	POLO	GY:	line	ar						A .	/ [	,
	2345		(ii)	MOL										_ 1	"		
	2346	·		FRA				-					$\mathcal{A}$	$\mathcal{I}$			
•	2347		(ix)	FEA'	TURE	:							XX	Y - '	١		
	2348			(A	) NA	ME/K	EY:	vari	atio	n			11/1	J			
	2349			(B	) LO	CATI	ON:	1132					U	•			
	2350			(D	) OT.	HER	INFO:	RMAT	ION:	Xaa	= L	vs (	from	code	on A	AR,	
	2351	R = 2	A or								•					,	
	2353		(xi)	SEQ	JENC.	E DE	SCRI	PTIO	N: S	EQ II	D NO	: 7:					
	2355			Ile									Phe	Glu	Ile	Phe	Lvs
	2356	1			_	5	-				10					15	2
	2357	Thr	Arg	Cys	Asn	Lys	Ala	Asp	Leu	Gly	Pro	Ile	Ser	Leu	Asn	Trp	Phe
	2358		_	_	20	-				25					30	I.	
	2359	Glu	Glu	Leu	Ser	Ser	Glu	Ala	Pro	Pro	Tyr	Asn	Ser	Glu	Pro	Ala	Glu
	2360			35					40		-			45			
	2361	Glu	Ser	Glu	His	Lys	Asn	Asn	Asn	Tyr	Glu	Pro	Asn	Leu	Phe	Lvs	Thr
	2362		50					55		_			60			4	
	2363	Pro	Gln	Arg	Lys	Pro	Ser	Tyr	Asn	Gln	Leu	Ala	Ser	Thr	Pro	Ile	Ile
	2364	65		_	_		70	_				75					80
	2365	Phe	Lys	Glu	Gln	Gly	Leu	Thr	Leu	Pro	Leu	Tyr	Gln	Ser	Pro	Val	Lys
	2366					85					90	-				95	-
	2367	Glu	Leu	Asp	Lys	Phe	Lys	Leu	Asp	Leu	Gly	Arg	Asn	Val	Pro	Asn	Ser
	2368				100					105					110		
	2369	Arg	His	Lys	Ser	Leu	Arg	Thr	Val	Lys	Thr	Lys	Met	Asp	Gln	Ala	Asp
	2370			115					120					125			=
	2371	Asp	Val	Ser	Cys	Pro	Leu	Leu	Asn	Ser	Cys	Leu	Ser	Glu	Ser	Pro	Val
	2372		130					135					140				
	2373	Val	Leu	Gln	Cys	Thr	His	Val	Thr	Pro	Gln	Arg	Asp	Lys	Ser	Val	Val
	2374	145					150					155					160
	2375	Cys	Gly	Ser	Leu	Phe	His	Thr	Pro	Lys	Phe	Val	Lys	Gly	Arg	Gln	Thr
	2376					165					170					175	
	2377	Pro	Lys	His		Ser	Glu	Ser	Leu	Gly	Ala	Glu	Val	Asp	Pro	Asp	Met
	2378				180					185					190		
	2379	Ser	Trp	Ser	Ser	Ser	Leu	Ala	Thr	Pro	Pro	Thr	Leu	Ser	Ser	Thr	Val
	2380			195					200					205			
	2381	Leu		Val	Arg	Asn	Glu		Ala	Ser	Glu	Thr		Phe	Pro	His	Asp
	2382		210					215					220				
	2383		Thr	Ala	Asn	Val		Ser	Tyr	Phe	Ser		His	Asp	Glu	Ser	
	2384	225					230					235					240
	2385	Lys	Lys	Asn	Asp		Phe	Ile	Ala	Ser		Thr	Asp	Ser	Glu		Thr
	2386	_				245					250					255	
	2387	Asn	Gln	Arg		Ala	Ala	Ser.	His		Phe.	Gly	Lys	Thr		Gly	Asn
	2388				260			_		265					270		
	2389	Ser	Phe	Lys	Val	Asn	Ser	Суѕ	-	Asp	His	Ile	Gly	_	Ser	Met	Pro
	2390	70		275	<b>~</b> 3	-	~ 3		280	~ 2				285			a.1
	2391	Asn		Leu	GLU	Asp	Glu		Tyr	GLu	Thr	Val		Asp	Thr	Ser	GLu
	2392		290					295					300				





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Input Set : A:\G150581u.txt

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2393		Asp	Ser	Phe	Ser		Cys	Phe	Ser	Lys	_	Arg	Thr	Lys	Asn	
2394	305	T	37 J	7)	m la	310	т	m 1	70	<b>~</b> .	315	т1.	D1	T1 2	C1	320
2395	GTII	Lys	vai	Arg	325	ser	Lys	THE	Arg	-	гаг	TTE	Pne	HIS		Ala
2396 2397	7	7. 7. ~	7/ ~~~	C1		C1	T	0 ~	т	330	C11 5	T7- 3	T	C1	335	m
	ASII	Ala	Asp		Cys	GIU	ьуѕ	ser		Asn	GIII	val	туѕ		гдз	TYT
2398	C = 20	Dho	77.0.7	340	C1	770.7	C1	Dwo	345	7	mb w	7	Dance	350	71 ~~~	C = 11
2399 2400	ser	Phe	355	ser	GLU	vai	GIU	360	ASII	Asp	T11T.	Asp	365	ьеч	Asp	ser
	7 00	1103		uio	Cln	Tura	Dro		C1	C 0.15	C1	Con		Tura	Tlo	C 0 22
2401	ASII	Val 370	Ald	птѕ	GTII	гуу	375	PHe	GIU	ser	СТУ	380	Asp	гЛЯ	тте	ser
2402 2403	T ***	Glu	1101	77-7	Droo	Cor		7.7.	Cua	C ] 12	m~~		Cln	T 011	Thr	Lon
2403	цуя 385	GIU	val	val	PLO	390	пеи	ALA	Суѕ	GIU	395	per	GIII	neu	T 11T	400
2404		Gly	Ton	7) CD	C1 17		Cln	Mo+	Clu	Tuc		Pro	T 011	T 017	Hic	
2405	per	GTÄ	пец	ASII	405	Ала	GIII	Mec	Giu	410	116	110	шеи	пец	415	TTG
2407	Sor	Ser	Cua	Z en		Zen	тЪ	Sar	Glu		Zen	T. 🗀 17	Ī. 🗀 13	Zen		Glu
2408	Der	DCT	СуЗ	420	0111	ATDII	116	DCT	425	пуэ	LISP	пси	пси	430	T 111	OLU
2409	Asn	Lys	Ara		Lvs	Asp	Phe	I.e.i.		Ser	Glu	Asn	Ser		Pro	Ara
2410	11011	y	435	y 0	11,70	1100		440		DCI	OLG	11011	445	200		*****
2411	Tle	Ser		Len	Pro	Lvs	Ser		Tivs	Pro	Len	Asn		Glu	Thr	Va 1
2412	110	450	201	200	110	ت ر	455	OL G	کا رک	110	200	460	0.11.0	01.0		
2413	Val	Asn	Lvs	Ara	Asp	G111		Gln	His	Leu	Glu		His	Thr	Asp	Cvs
2414	465		-1-	5	I-	470					475					480
2415		Leu	Ala	Val	Lvs		Ala	Ile	Ser	Glv		Ser	Pro	Val	Ala	
2416					485					490					495	
2417	Ser	Phe	Gln	Glv	Ile	Lvs	Lvs	Ser	Ile	Phe	Ara	Ile	Arg	Glu	Ser	Pro
2418				500		2	2		505		_		~	510		
2419	Lys	Glu	Thr	Phe	Asn	Ala	Ser	Phe	Ser	Gly	His	Met	Thr	Asp	Pro	Asn
2420	-		515					520		_			525	•		
2421	Phe	Lys	Lys	Glu	Thr	Glu	Ala	Ser	Glu	Ser	Gly	Leu	Glu	Ile	His	Thr
2422		530	-				535					540				
2423	Val	Cys	Ser	Gln	Lys	Glu	Asp	Ser	Leu	Суѕ	Pro	Asn	Leu	Ile	Asp	Asn
2424	545					550					555					560
2425	Gly	Ser	Trp	Pro	Ala	Thr	Thr	Thr	Gln	Asn	Ser	Val	Ala	Leu	Lys	Asn
2426					565					570					575	
2427	Ala	Gly	Leu	Ile	Ser	Thr	Leu	Lys	Lys	Lys	Thr	Asn	Lys	Phe	Ile	Tyr
2428				580					585					590		
2429	Ala	Ile	His	Asp	Glu	Thr	Ser		Lys	Gly	Lys	Lys		Pro	Lys	Asp
2430			595					600					605			
2431	Gln	Lys	Ser	Glu	Leu	Ile		Cys	Ser	Ala	Gln		Glu	Ala	Asn	Ala
2432		610					615	_				620		_	2	
2433		Glu	Ala	Pro	Leu		Phe	Ala	Asn	Ala		Ser	Gly	Leu	Leu	
2434	625					630					635				_	640
2435	Ser	Ser	Val	Lys		Ser	Cys	Ser	GIn		Asp	Ser	GLu	Glu		Thr
2436	_				645					650			_	~	655	_
2437	Leu	Ser	Leu		Ser	Ser	Phe	GŢĀ		Ile	Leu	Arg	гàг		Ser	Arg
2438	_			660	~	_	_	era 1	665	~ 7	<u> </u>	0.7	70	670	70	
2439	Asn	Glu		Cys	Ser	Asn	Asn		Va⊥	TTe	Ser	GIn		Leu	Asp	тyr
2440	<b>.</b>	<b>.</b>	675	-	~	70.	<b></b>	680	T -	<b>~</b>	O1 -	π.	685	тэ -	m).	Dag -
2441	гàг	Glu	Ala	ьуs	Cys	Asn	ГÀЗ	GLU	гла	ьeu	GIN	Leu	rne	тте	Inr	Pro





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Input Set : A:\G150581u.txt

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2444   705	2442		690					695					700				
2444   705	2443	Glu	Ala	Asp	Ser	Leu	Ser		Leu	Gln	Glu	Glv		Cvs	Glu	Asn	Asp
2446	2444			-										4 .			
2446	2445	Pro	Lys	Ser	Lvs	Lys	Val	Ser	Asp	Ile	Lys	Glu	Glu	Val	Leu	Ala	
2448	2446		-		-2				-								
2448	2447	Ala	Cvs	His	Pro	Val	Gln	His	Ser	Lvs	Val	Glu	Tvr	Ser	Asp	Thr	Asp
2449	2448									_			- 4 -		_		L
2450	2449	Phe	Gln	Ser		Lvs	Ser	Leu	Leu	Tvr	Asp	His	Glu	Asn	Ala	Ser	Thr
2451   Leu Ile Leu Thr Pro Thr Ser Lys Asp Val Leu Ser Asp Leu Val Met	2450					-4					-						
2452	2451	Leu	Ile	Leu	Thr	Pro	Thr	Ser	Lvs	Asp	Val	Leu	Ser		Leu	Val	Met
2455	2452								<b>-</b>	-							
2455	2453	Ile	Ser	Arg	Glv	Lys	Glu	Ser	Tvr	Lvs	Met	Ser	Asp	Lvs	Leu	Lvs	Glv
2456	2454					-4			-4	2			1.	2 -		-4	
2456	2455	Asn	Asn	Tvr	Glu	Ser	Asp	Val	Glu	Leu	Thr	Lvs	Asn	Ile	Pro	Met	Glu
2458	2456			-4			-										
2458	2457	Lys	Asn	Gln	Asp	Val	Cys	Ala	Leu	Asn	Glu	Asn	Tyr	Lys	Asn	Val	Glu
2460	2458	-			_		_						_				
2460	2459	Leu	Leu	Pro	Pro	Glu	Lys	Tyr	Met	Arq	Val	Ala	Ser	Pro	Ser	Arq	Lys
2462   850	2460						-	-		,						_	-
2462   850	2461	Val	Gln	Phe	Asn	Gln	Asn	Thr	Asn	Leu	Arq	Val	Ile	Gln	Lys	Asn	Gln
2464   865	2462										_				-		
2464   865	2463	Glu	Glu	Thr	Thr	Ser	Ile	Ser	Lys	Ile	Thr	Val	Asn	Pro	Asp	Ser	Glu
2466	2464								-						-		
2466	2465	Glu	Leu	Phe	Ser	Asp	Asn	Glu	Asn	Asn	Phe	Val	Phe	Gln	Val	Ala,	Asn
2468	2466																
2468	2467	Glu	Arq	Asn	Asn	Leu	Ala	Leu	Gly	Asn	Thr	Lys	Glu	Leu	His	Glu	Thr
2470	2468								- 4			-					
2470	2469	Asp	Leu	Thr	Cys	Val	Asn	Glu	Pro	Ile	Phe	Lys	Asn	Ser	Thr	Met	Val
2472	2470	-										_					
2472	2471	Leu	Tyr	Gly	Asp	Thr	Gly	Asp	Lys	Gln	Ala	Thr	Gln	Val	Ser	Ile	Lys
2474 945 950 955 966  2475 Gln His Ile Lys Met Thr Leu Gly Gln Asp Leu Lys Ser Asp Ile Ser 2476 965 970 975  2477 Leu Asn Ile Asp Lys Ile Pro Glu Lys Asn Asn Asp Tyr Met Asn Lys 2478 980 985 990  2479 Trp Ala Gly Leu Leu Gly Pro Ile Ser Asn His Ser Phe Gly Gly Ser 2480 995 1000 1005  2481 Phe Arg Thr Ala Ser Asn Lys Glu Ile Lys Leu Ser Glu His Asn Ile 2482 1010 1015 1020  2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr 2484 1025 1030 1035  2485 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln 2486 1045 1045 1055  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2472			-					-								-
2475 Gln His Ile Lys Met Thr Leu Gly Gln Asp Leu Lys Ser Asp Ile Ser 965 970 975 975  2477 Leu Asn Ile Asp Lys Ile Pro Glu Lys Asn Asn Asp Tyr Met Asn Lys 980 985 985 990  2478 2479 Trp Ala Gly Leu Leu Gly Pro Ile Ser Asn His Ser Phe Gly Gly Ser 1000 1005  2481 Phe Arg Thr Ala Ser Asn Lys Glu Ile Lys Leu Ser Glu His Asn Ile 1015 1020  2482 1010 1015 1020  2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr 1046  2486 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln 1045  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488  Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2473	Lys	Asp	Leu	Val	Tyr	Val	Leu	Ala	Glu	Glu	Asn	Lys	Asn	Ser	Val	Lys
2476	2474	945					950					955					960
2477 Leu Asn Ile Asp Lys Ile Pro Glu Lys Asn Asn Asp Tyr Met Asn Lys 980	2475	Gln	His	Ile	Lys	Met	Thr	Leu	Gly	Gln	Asp	Leu	Lys	Ser	Asp	Ile	Ser
2478	2476					965					970					975	
2479 Trp Ala Gly Leu Leu Gly Pro Ile Ser Asn His Ser Phe Gly Gly Ser 2480 995 1000 1005  2481 Phe Arg Thr Ala Ser Asn Lys Glu Ile Lys Leu Ser Glu His Asn Ile 2482 1010 1015 1020  2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr 2484 1025 1030 1035  2485 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln 2486 1045 1045 1055  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2477	Leu	Asn	Ile	Asp	Lys	Ile	Pro	Glu	Lys	Asn	Asn	Asp	Tyr	Met	Asn	Lys
2480 995 1000 1005  2481 Phe Arg Thr Ala Ser Asn Lys Glu Ile Lys Leu Ser Glu His Asn Ile 2482 1010 1015 1020  2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr 2484 1025 1030 1035  2485 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln 2486 1045 1045 1050 1055  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2478				980					985					990		
2481       Phe Arg Thr Ala Ser Asn Lys Glu Ile Lys Leu Ser Glu His Asn Ile         2482       1010       1015       1020         2483       Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr         2484       1025       1030       1035         2485       Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln         2486       1045       1050       1055         2487       Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu         2488       1060       1065       1070         2489       Gln Ser Ser Val Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2479	Trp	Ala	Gly	Leu	Leu	Gly	Pro	Ile	Ser	Asn	His	Ser	Phe	Gly	Gly	Ser
2482 1010 1015 1020  2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr  2484 1025 1030 1035  2485 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln  2486 1045 1045 1050  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu  2488 1060 1065 1070  2489 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2480			995					1000	)				1005	5		
2483 Lys Lys Ser Lys Met Phe Phe Lys Asp Ile Glu Glu Gln Tyr Pro Thr 2484 1025	2481	Phe	Arg	Thr	Ala	Ser	Asn	Lys	Glu	Ile	Lys	Leu	Ser	Glu	His	Asn	Ile
2484       1025       1030       1035       104         2485       Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln         2486       1045       1050       1055         2487       Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu         2488       1060       1065       1070         2489       Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2482		1010	)				1015	j .				1020	)			
2485 Ser Leu Ala Cys Val Glu Ile Val Asn Thr Leu Ala Leu Asp Asn Gln 2486 1045 1050 1055  2487 Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488 1060 1065 1070  2489 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2483	Lys	Lys	Ser	Lys	Met			Lys	Asp	Ile	Glu	Glu	Gln	Tyr	Pro	TAT
2486       1045       1050       1055         2487       Lys Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu         2488       1060       1065       1070         2489       Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2484																
2487 Lys Leu Ser Lys Pro Gln Ser Ile Asn Thr Val Ser Ala His Leu 2488 1060 1065 1070 2489 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2485	Ser	Leu	Ala	Cys	Val	Glu	Ile	Val	Asn	Thr	Leu	Ala	Leu	Asp	Asn	Gln
2488 1060 1065 1070 2489 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2486					1045	5				1050	)				1055	5
2489 Gln Ser Ser Val Val Val Ser Asp Cys Lys Asn Ser His Ile Thr Pro	2487	Lys	Lys	Leu	Ser	Lys	Pro	Gln	Ser	Ile	Asn	Thr	Val	Ser			Leu
	2488													•			
2490 1075 1080 1085	2489	Gln	Ser	Ser	Val	Val	Val	Ser	Asp	Cys	Lys	Asn	Ser			Thr	Pro
	2490			1075	5				1080	)				1085	5		

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Input Set : A:\G150581u.txt

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	2491 2492		Met 1090	)				109	5				1100	)			
E>	2493 <b>2494</b>	Pro 1109	Ser 5	Gln	Lys	Ala	Glu 111(		Thr	Glu	Leu	Ser 1115		Ile	Leu	Glu	Glu <b>112</b>
W>	<b>2495</b> 2496	Ser	Gly	Ser	Gln	Phe 1125		Phe	Thr	Gln	Phe 1130		Xaa	Pro	Ser	<b>Tyr</b> 1133	
	2497 2498	Leu	Gln	Lys	Ser 1140		Phe	Glu	Val	Pro 1145	Glu		Gln	Met	Thr 1150	Ile	
	2499 2500	Lys	Thr	Thr 1159		Glu	Glu	Cys	Arg 116	Asp		Asp	Leu	His 1165	Val		Met
	2501 2502	Asn	Ala 1170		Ser	Ile	Gly	Gln 117		Asp	Ser		Lys 1180		Phe	Glu	Gly
E>	2503	Thr 1185	Val		Ile	Lys	Arg 1190	Lys		Ala	Gly		Leu		Asn	Asp	Cys <b>120</b>
	2505 2506		Lys	Ser	Ala	Ser 1205	Gly	Tyr			Asp 1210	Glu		Glu	Val	Gly 121	Phe
	2507 2508	Arg	Gly	Phe	Tyr 1220	Ser					Lys		Asn	Val	Ser 1230	Thr	
	2509 2510	Ala	Leu	Gln 1235	Lys		Val		Leu 1240	Phe		Asp	Ile	Glu 1245	Asn		Ser
	2511 2512	Glu	Glu 1250	Thr		Ala	Glu		His		Ile	Ser	Leu 1260	Ser		Ser	Lys
E>	2513	Суз <b>126</b> 5	His		Ser		Val <b>127</b> 0	Ser		Phe	Lys	Ile 1275	Glu		His	Asn	Asp 128
	2515 2516	Lys	Thr	Val	Ser	Glu 1285		Asn	Asn	Lys	Cys 1290		Leu	Ile	Leu	Gln 1295	
	2517 2518	Asn	Ile	Glu	Met 1300		Thr	Gly	Thr	Phe 1305		Glu	Glu	Ile	Thr 1310		Asn
	2519 2520		Lys	1315	5				1320	)				1325	, ,		
	2521 2522	Arg	Asn 1330		His	Asn		Glu 1335		Asp	Gly		Asp 1340		Ser	Lys	Asn
E>	2523 <b>2524</b>	Asp 1345	Thr	Val	Cys		His 1350	-	Asp	Glu	Thr	Asp <b>1355</b>		Leu	Phe	Thr	Asp 136
	2525 2526	Gln	His	Asn	Ile	Cys 1365		Lys	Leu	Ser	Gly 1370		Phe	Met		Glu 1375	
	2527 2528	Asn	Thr	Gln	Ile 1380	_	Glu	Asp	Leu	Ser 1385		Leu	Thr		Leu 1390		Val
	2529 2530	Ala	Lys	Ala 1395		Glu	Ala		His 1400		Asn	Thr	Ser	Asn 1405	_	Glu	Gln
	2531 2532		Thr 1410	)				1415	5				1420	ı			
E>	2533 <b>2534</b>	Asp <b>1425</b>	Thr 5	Phe	Phe	Gln	Thr 1430		Ser		Lys	Asn <b>1435</b>		Ser	Val	Ala	Lys <b>144</b>
	2535 2536		Ser			1445	,				1450	)				1455	· )
	2537 2538		His		1460	)				1465	·				1470	}	
	2539	Asn	Lys	Met	Asp	Ile	Leu	Ser	Tyr	Glu	Glu	Thr	Asp	Ile	Val	Lys	His

same



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Input Set : A:\G150581u.txt

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	2540			1475	5				1480	)				1485	5		
	2541	Lvs	Ile			Glu	Ser	Val			Glv	Thr	Glv			Leu	Val
	2542		1490					1495			1		1500				
	2543	Thr	Phe	Gln	Gly	Gln	Pro			Asp	Glu	Lvs	Ile	Lys	Glu	Pro	Thr
E>		1505			_		1510		.,			1515		-			152
	2545	Leu	Leu	Gly	Phe	His	Thr	Ala	Ser	Gly	Lys	Lys	Val	Lys	Ile	Ala	Lys
	2546			-		1525				_	1530	_		-		1535	
	2547	Glu	Ser	Leu	Asp	Lys	Val	Lys	Asn	Leu	Phe	Asp	Glu	Lys	Glu	Gln	Gly
	2548				1540	) .		-		1545	5				1550	)	
	2549	Thr	Ser	Glu	Ile	Thr	Ser	Phe	Ser	His	Gln	Trp	Ala	Lys	Thr	Leu	Lys
	2550			1555	5				1560	)				1565	5		
	2551	Tyr	Arg	Glu	Ala	Cys	Lys	Asp	Leu	Glu	Leu	Ala	Cys	Glu	Thr	Ile	Glu
	2552		1570					1575					1580				
	2553	Ile	Thr	Ala	Ala	Pro		-	Lys	Glu	Met			Ser	Leu	Asn	
E>	2554	1585					1590					1595					160
	2555	Asp	Lys	Asn	Leu			Ile	Glu	Thr			Pro	Pro	Lys		
	2556			_		1605					1610		_			1615	
	2557	Ser	Asp	Asn			Arg	GIn	Thr			Leu	Lys	Thr			Ser
	2558			_	1620				1	1625			ė.	-	1630		27 <b>7</b>
	2559	lle	Phe			Val	Lys	Val			Asn	Val	Glu			Thr	Ата
	2560	_	~	1635		m1	<i>a</i>		1640		a i	α	T)	1645		77-7	T 1 + :
	2561	Lys	Ser		Ата	Thr	Cys			Asn	GIN	ser			ser	var	TTE
	2562	C 1	1650 Asn		7\ ] _	T 011	70.1.0	1655		Th w	Con	Crra	1660		Tvc	Thr	Cor
₽>	2563 <b>2564</b>	1665		ser	Ата	теп	1670		тут	1111	ser	1675		ALY	гуу	TIIT	168
E/												10/					100
	2565	17.51	Sar	Gln	<b>Thr</b>	Sar	T. 😑 1 1	T. @11	$G_{11}$	Δla	Tive	LVS	Tro	Len	Ara	Glu	Glv
	2565 2566	Val	Ser	Gln	Thr				Glu	Ala			Trp	Leu	Arg		
·	2566					1685	)				1690	)				1695	5
	2566 2567		Ser Phe		Gly	1685 Gln	)			Ile	1690 Asn	)				1695 Val	5
	2566 2567 2568	Ile	Phe	Asp	Gly 1700	1685 Gln )	Pro	Glu	Arg	Ile 1705	1690 Asn	) Thr	Ala	Asp	Tyr 1710	1695 Val )	Gly
	2566 2567 2568 2569	Ile		Asp	Gly 1700 Tyr	1685 Gln )	Pro	Glu	Arg	Ile 1705 Asn	1690 Asn	) Thr	Ala	Asp	Tyr 1710 Glu	1695 Val )	Gly
	2566 2567 2568	Ile Asn	Phe Tyr	Asp Leu 1715	Gly 1700 Tyr	1685 Gln ) Glu	Pro Asn	Glu Asn	Arg Ser 1720	Ile 1705 Asn	1690 Asn Ser	Thr Thr	Ala Ile	Asp Ala 1725	Tyr 1710 Glu	1695 Val ) Asn	Gly Asp
·	2566 2567 2568 2569 2570	Ile Asn	Phe	Asp Leu 1715 His	Gly 1700 Tyr	1685 Gln ) Glu	Pro Asn	Glu Asn	Arg Ser 1720 Gln	Ile 1705 Asn	1690 Asn Ser	Thr Thr	Ala Ile	Asp Ala 1725 Ser	Tyr 1710 Glu	1695 Val ) Asn	Gly Asp
·	2566 2567 2568 2569 2570 2571	Ile Asn Lys	Phe Tyr Asn	Asp Leu 1715 His	Gly 1700 Tyr S Leu	1685 Gln ) Glu Ser	Pro Asn Glu	Glu Asn Lys 1735 Tyr	Arg Ser 1720 Gln His	Ile 1705 Asn Asp	1690 Asn Ser Thr	Thr Thr Thr	Ala Ile Leu 1740	Asp Ala 1725 Ser	Tyr 1710 Glu Asn	1695 Val ) Asn Ser	Gly Asp Ser
E>	2566 2567 2568 2569 2570 2571 2572	Ile Asn Lys Met 1745	Phe Tyr Asn 1730 Ser	Asp Leu 1715 His ) Asn	Gly 1700 Tyr Leu Ser	1685 Gln ) Glu Ser Tyr	Pro Asn Glu Ser 1750	Glu Asn Lys 1735 Tyr	Arg Ser 1720 Gln His	Ile 1705 Asn Asp Asp	1690 Asn Ser Thr	Thr Thr Tyr Glu 1755	Ala Ile Leu 1740 Val	Asp Ala 1725 Ser ) Tyr	Tyr 1710 Glu Asn Asn	1695 Val ) Asn Ser Asp	Gly Asp Ser Ser 176
E>	2566 2567 2568 2569 2570 2571 2572 2573	Ile Asn Lys Met 1745	Phe Tyr Asn 1730 Ser	Asp Leu 1715 His ) Asn	Gly 1700 Tyr Leu Ser	1685 Gln ) Glu Ser Tyr	Pro Asn Glu Ser 1750	Glu Asn Lys 1735 Tyr	Arg Ser 1720 Gln His	Ile 1705 Asn Asp Asp	1690 Asn Ser Thr	Thr Thr Tyr Glu 1755	Ala Ile Leu 1740 Val	Asp Ala 1725 Ser ) Tyr	Tyr 1710 Glu Asn Asn	1695 Val ) Asn Ser Asp	Gly Asp Ser Ser 176
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576	Ile Asn Lys Met 1745 Gly	Phe Tyr Asn 1730 Ser Tyr	Leu 1715 His ) Asn Leu	Gly 1700 Tyr Leu Ser	1685 Gln Glu Ser Tyr Lys 1765	Pro Asn Glu Ser 1750 Asn	Glu Asn Lys 1735 Tyr Lys	Arg Ser 1720 Gln His	Ile 1705 Asn Asp Ser	1690 Asn Ser Thr Asp Ser 1770	Thr Thr Tyr Glu 1755 Gly	Ala Ile Leu 1740 Val Ile	Asp Ala 1725 Ser ) Tyr Glu	Tyr 1710 Glu Asn Asn	1695 Val Asn Ser Asp Val	Gly Asp Ser Ser 176 Leu
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577	Ile Asn Lys Met 1745 Gly	Phe Tyr Asn 1730 Ser	Leu 1715 His ) Asn Leu	Gly 1700 Tyr Leu Ser Ser	1685 Gln Glu Ser Tyr Lys 1765 Asp	Pro Asn Glu Ser 1750 Asn	Glu Asn Lys 1735 Tyr Lys	Arg Ser 1720 Gln His	Ile 1705 Asn Asp Ser Asp	1690 Asn Ser Thr Asp Ser 1770 Ser	Thr Thr Tyr Glu 1755 Gly	Ala Ile Leu 1740 Val Ile	Asp Ala 1725 Ser ) Tyr Glu	Tyr 1710 Glu S Asn Asn Pro	1695 Val Asn Ser Asp Val 1775 Ile	Gly Asp Ser Ser 176 Leu
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578	Ile Asn Lys Met 1745 Gly Lys	Phe Tyr Asn 1730 Ser Tyr Asn	Leu 1715 His ) Asn Leu Val	Gly 1700 Tyr Leu Ser Ser Glu 1780	1685 Gln Glu Ser Tyr Lys 1765 Asp	Pro Asn Glu Ser 1750 Asn Gln	Glu Asn Lys 1735 Tyr Lys Lys	Arg Ser 1720 Gln His Leu Asn	Ile 1705 Asn Asp Ser Asp	1690 Asn Ser Thr Asp Ser 1770 Ser	Thr Thr Glu 1755 Gly Phe	Ala Ile Leu 1740 Val Ile Ser	Asp Ala 1725 Ser Tyr Glu Lys	Tyr 1710 Glu S Asn Asn Pro Val 1790	1695 Val Asn Ser Asp Val 1775 Ile	Gly Asp Ser Ser 176 Leu Ser
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579	Ile Asn Lys Met 1745 Gly	Phe Tyr Asn 1730 Ser Tyr Asn	Asp Leu 1715 His ) Asn Leu Val	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp	1685 Gln Glu Ser Tyr Lys 1765 Asp	Pro Asn Glu Ser 1750 Asn Gln	Glu Asn Lys 1735 Tyr Lys Lys	Arg Ser 1720 Gln His Leu Asn	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro	1690 Asn Ser Thr Asp Ser 1770 Ser	Thr Thr Glu 1755 Gly Phe	Ala Ile Leu 1740 Val Ile Ser	Asp Ala 1725 Ser Tyr Glu Lys Asn	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu	1695 Val Asn Ser Asp Val 1775 Ile	Gly Asp Ser Ser 176 Leu Ser
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580	Ile Asn Lys Met 1745 Gly Lys Asn	Phe Tyr Asn 1730 Ser Tyr Asn Val	Asp Leu 1715 His ) Asn Leu Val Lys 1795	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp	1685 Gln Glu Ser Tyr Lys 1765 Asp	Pro Asn Glu Ser 1750 Asn Gln Asn	Glu Asn Lys 1735 Tyr Lys Lys Ala	Arg Ser 1720 Gln His Leu Asn Tyr 1800	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro	1690 Asn Ser Thr Asp Ser 1770 Ser	Thr Thr Tyr Glu 1755 Gly Phe	Ala Ile Leu 1740 Val Ile Ser Val	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu	1695 Val ) Asn Ser Asp Val 1775 Ile )	Gly Asp Ser Ser 176 Leu Ser Ile
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581	Ile Asn Lys Met 1745 Gly Lys Asn	Phe Tyr Asn 1730 Ser Tyr Asn Val	Asp Leu 1715 His ) Asn Leu Val Lys 1795 Glu	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp	1685 Gln Glu Ser Tyr Lys 1765 Asp	Pro Asn Glu Ser 1750 Asn Gln Asn	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr	Ser 1720 Gln His Leu Asn Tyr 1800 Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro	1690 Asn Ser Thr Asp Ser 1770 Ser	Thr Thr Tyr Glu 1755 Gly Phe	Ala Ile Leu 1740 Val Ile Ser Val Cys	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu	1695 Val ) Asn Ser Asp Val 1775 Ile )	Gly Asp Ser Ser 176 Leu Ser Ile
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582	Ile Asn Lys Met 1745 Gly Lys Asn Cys	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810	Asp Leu 1715 His ) Asn Leu Val Lys 1795 Glu	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp	1685 Gln Glu Ser Tyr Lys 1765 Asp ) Ala	Pro Asn Glu Ser 1750 Asn Gln Asn Val	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815	Ser 1720 Gln His Leu Asn Tyr 1800 Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro	1690 Asn Ser Thr Asp Ser 1770 Ser Gln	Thr Thr Tyr Glu 1755 Gly Phe Thr	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn	1695 Val ) Asn Ser Asp Val 1775 Ile ) Asp	Ser Ser 176 Leu Ser Ile Asn
	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582 2583	Ile Asn Lys Met 1745 Gly Lys Asn Cys Ala	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810 Ala	Asp Leu 1715 His ) Asn Leu Val Lys 1795 Glu	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp	1685 Gln Glu Ser Tyr Lys 1765 Asp ) Ala	Pro Asn Glu Ser 1750 Asn Gln Asn Val	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815	Ser 1720 Gln His Leu Asn Tyr 1800 Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro	1690 Asn Ser Thr Asp Ser 1770 Ser Gln	Thr Thr Tyr Glu 1755 Gly Phe Thr Pro	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820 Asn	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn	1695 Val ) Asn Ser Asp Val 1775 Ile ) Asp	Gly Asp Ser Ser 176 Leu Ser Ile Asn Gly
E>	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582 2583 <b>2584</b>	Ile Asn Lys Met 1745 Gly Lys Asn Cys Ala 1825	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810 Ala	Leu 1715 His ) Asn Leu Val Lys 1795 Glu )	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp Glu Lys	1685 Gln Glu Ser Tyr Lys 1765 Asp Ala Leu	Pro Asn Glu Ser 1750 Asn Gln Asn Val Ser 1830	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815 Ile	Ser 1720 Gln His Leu Asn Tyr 1800 Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro Ser	1690 Asn Ser Thr Asp Ser 1770 Ser Gln Ser	Thr Thr Tyr Glu 1755 Gly Phe Thr Pro Asn	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820 Asn	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys Phe	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn Glu	1695 Val Asn Ser Asp Val 1775 Ile Asp Lys Val	Ser Ser 176 Leu Ser Ile Asn Gly 184
	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582 2583 <b>2584</b> 2585	Ile Asn Lys Met 1745 Gly Lys Asn Cys Ala 1825	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810 Ala	Leu 1715 His ) Asn Leu Val Lys 1795 Glu )	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp Glu Lys	1685 Gln Glu Ser Tyr Lys 1765 Asp Ala Leu Leu Arg	Pro Asn Glu Ser 1750 Asn Gln Asn Val Ser 1830 Ile	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815 Ile	Ser 1720 Gln His Leu Asn Tyr 1800 Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro Ser	1690 Asn Ser Thr Asp Ser 1770 Ser Gln Ser Ser	Thr Thr Tyr Glu 1755 Gly Phe Thr Pro Asn 1835	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820 Asn	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys Phe	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn Glu	1695 Val ) Asn Ser Asp Val 1775 Ile ) Asp Lys Val Ser	Ser Ser 176 Leu Ser Ile Asn Gly 184 His
	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582 2583 <b>2584</b> 2585 2586	Ile Asn Lys Met 1745 Gly Lys Asn Cys Ala 1825	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810 Ala Pro	Asp Leu 1715 His Asn Leu Val Lys Glu Ile Ala	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp Glu Lys Phe	1685 Gln Glu Ser Tyr Lys 1765 Asp Ala Leu Leu Arg 1845	Pro Asn Glu Ser 1750 Asn Gln Asn Val Ser 1830 Ile	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815 Ile Ala	Ser 1720 Gln His Leu Asn Tyr 1800 Ser Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro Ser Asn	1690 Asn Ser Thr Asp Ser 1770 Ser Ser Ser Lys	Thr Thr Tyr Glu 1755 Gly Phe Thr Pro Asn 1835	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820 Asn Val	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys Phe Cys	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn Glu Val	1695 Val ) Asn Ser Asp Val 1775 Ile ) Asp Lys Val Ser 1855	Ser Ser 176 Leu Ser Ile Asn Gly 184 His
	2566 2567 2568 2569 2570 2571 2572 2573 <b>2574</b> 2575 2576 2577 2578 2579 2580 2581 2582 2583 <b>2584</b> 2585	Ile Asn Lys Met 1745 Gly Lys Asn Cys Ala 1825	Phe Tyr Asn 1730 Ser Tyr Asn Val Val 1810 Ala	Asp Leu 1715 His Asn Leu Val Lys Glu Ile Ala	Gly 1700 Tyr Leu Ser Ser Glu 1780 Asp Glu Lys Phe	1685 Gln Glu Ser Tyr Lys 1765 Asp Ala Leu Leu Arg 1845 Lys	Pro Asn Glu Ser 1750 Asn Gln Asn Val Ser 1830 Ile	Glu Asn Lys 1735 Tyr Lys Lys Ala Thr 1815 Ile Ala	Ser 1720 Gln His Leu Asn Tyr 1800 Ser Ser	Ile 1705 Asn Asp Ser Asp Thr 1785 Pro Ser Asn	1690 Asn Ser Thr Asp Ser 1770 Ser Gln Ser Lys 1850 Phe	Thr Thr Tyr Glu 1755 Gly Phe Thr Pro Asn 1835	Ala Ile Leu 1740 Val Ile Ser Val Cys 1820 Asn Val	Asp Ala 1725 Ser Tyr Glu Lys Asn 1805 Lys Phe Cys	Tyr 1710 Glu Asn Asn Pro Val 1790 Glu Asn Glu Val	1695 Val ) Asn Ser Asp Val 1775 Ile ) Asp Lys Val Ser 1855 Ser	Ser Ser 176 Leu Ser Ile Asn Gly 184 His

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	2589 2590	Val	Ile	Lys 1875		Asn	Asn	Glu			Ser	Lys	Ile			Thr	Lys
		T1.	N = +-			G	· · · · ·	C 3	1880		7)	70	C	1885	-	T1.	T
	2591 2592	TTE	1890	Ala	стА	Cys	TÀT	1895		Leu	Asp	Asp	1900		Asp	тте	Leu
	2593	His		Ser	Leu	Asp	Asn			Cvs	Ser	Thr			His	Lvs	Val
E>	2594	1905					1910			- 1		1915				2	192
	2595	Phe	Ala	Asp	Ile	Gln			Glu	Ile	Leu			Asn	Gln	Asn	
	2596					1925					1930					1935	
	2597	Ser	Gly	Leu	Glu	Lys	Val	Ser	Lys	Ile	Ser	Pro	Cys	Asp	Val	Ser	Leu
	2598		_		1940				_	1945			-	-	1950		
	2599	Glu	Thr	Ser	Asp	Ile	Cys	Lys	Cys	Ser	Ile	Gly	Lys	Leu	His	Lys	Ser
	2600			1955	5				1960	)				1965	5		
	2601	Val	Ser	Ser	Ala	Asn	Thr			Ile	Phe	Ser	Thr	Ala	Ser	Gly	Lys
	2602		1970					1975					1980				
	2603			Gln	Val	Ser			Ser	Leu	Gln			Arg	Gln	Val	
E>	2604	1985			_		1990					1995		_		_	200
	2605	Ser	Glu	Ile	Glu			Thr	Lys	Gln			Ser	Lys	Val		
	2606	-	•	70	<b>G</b> 1	2005		7	<b>G</b> 1	<b>-</b>	2010		G1.	<b>01</b>	70	2015	
	2607	ьуs	Ser	Asn			Ser	Asp	GIN			Arg	GLU		2030		ALA
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	2611	V-1	77-7	Asn		Sor	7.12	Pho			Dho	Sor	Thr			G1 v	Tare
	2612	var	2050		Ser	per	Ала	2055		Эту			2060		Der	GTĀ	цуз
	2613	Gln		Ser	Tle	Len	Glu								Glv	Val	T.e11
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	2615			Phe	Asp	Leu			Thr	Glu	His			His	Tyr	Ser	
	2616				~	2085					2090				_	2095	
	2010							a				***					70
	2617	Thr	Ser	Arg	Gln		Val	ser	Lys	Ile	Leu	Pro	Arg	Val	Asp	Lys	Arg
		Thr	Ser	Arg	Gln 2100	Asn	Val	ser		Ile 2105		Pro	Arg	Val	Asp 2110		Arg
	2617			Arg Glu	2100	Asn )			_	2105	ō		_		2110	) "	
	2617 2618	Asn	Pro	Glu 2115	2100 His	Asn ) Cys	Val	Asn	Ser 2120	2105 Glu )	Met	Glu	Lys	Thr 2125	2110 Cys	Ser	Lys
	2617 2618 2619 2620 2621	Asn	Pro Phe	Glu 2115 Lys	2100 His	Asn ) Cys	Val	Asn Asn	Ser 2120 Leu	2105 Glu )	Met	Glu	Lys Gly	Thr 2125 Gly	2110 Cys	Ser	Lys
	2617 2618 2619 2620 2621 2622	Asn Glu	Pro Phe 2130	Glu 2115 Lys	2100 His Leu	Asn Cys Ser	Val Asn	Asn Asn 2135	Ser 2120 Leu	2105 Glu ) Asn	Met Val	Glu Glu	Lys Gly 2140	Thr 2125 Gly	2110 Cys Ser	Ser Ser	Lys Glu
	2617 2618 2619 2620 2621 2622 2623	Asn Glu Asn	Pro Phe 2130 Asn	Glu 2115 Lys	2100 His Leu	Asn Cys Ser	Val Asn Lys	Asn Asn 2135 Val	Ser 2120 Leu	2105 Glu ) Asn	Met Val Tyr	Glu Glu Leu	Lys Gly 2140 Ser	Thr 2125 Gly ) Gln	2110 Cys Ser Phe	Ser Ser	Lys Glu Gln
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b>	Asn Glu Asn 2145	Pro Phe 2130 Asn	Glu 2115 Lys ) His	2100 His Leu Ser	Asn Cys Ser Ile	Val Asn Lys <b>215</b> 0	Asn Asn 2135 Val	Ser 2120 Leu Ser	2105 Glu ) Asn Pro	Met Val Tyr	Glu Glu Leu <b>2155</b>	Lys Gly 2140 Ser	Thr 2125 Gly ) Gln	2110 Cys Ser Phe	Ser Ser Gln	Lys Glu Gln <b>216</b>
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625	Asn Glu Asn 2145	Pro Phe 2130 Asn	Glu 2115 Lys	2100 His Leu Ser	Asn Cys Ser Ile	Val Asn Lys <b>215</b> 0	Asn Asn 2135 Val	Ser 2120 Leu Ser	2105 Glu ) Asn Pro	Met Val Tyr Lys	Glu Glu Leu <b>2155</b> Val	Lys Gly 2140 Ser	Thr 2125 Gly ) Gln	2110 Cys Ser Phe	Ser Ser Gln Glu	Lys Glu Gln <b>216</b> Asn
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626	Asn Glu Asn <b>2145</b> Asp	Pro Phe 2130 Asn Lys	Glu 2115 Lys His	2100 His Leu Ser	Asn Cys Ser Ile Leu 2165	Val Asn Lys <b>215</b> 0 Val	Asn Asn 2135 Val D Leu	Ser 2120 Leu Ser Gly	2105 Glu ) Asn Pro	Met Val Tyr Lys 2170	Glu Glu Leu <b>2155</b> Val	Lys Gly 2140 Ser Ser	Thr 2125 Gly ) Gln Leu	2110 Cys Ser Phe	Ser Ser Gln Glu 2175	Lys Glu Gln <b>216</b> Asn
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627	Asn Glu Asn <b>2145</b> Asp	Pro Phe 2130 Asn Lys	Glu 2115 Lys ) His	2100 His Leu Ser Gln Leu	Asn ) Cys Ser Ile Leu 2165	Val Asn Lys <b>2150</b> Val Lys	Asn 2135 Val b Leu Glu	Ser 2120 Leu Ser Gly	2105 Glu Asn Pro Thr	Met Val Tyr Lys 2170 Ser	Glu Glu Leu <b>2155</b> Val ) Pro	Lys Gly 2140 Ser Ser Lys	Thr 2125 Gly ) Gln Leu	2110 Cys Ser Phe Val	Ser Ser Gln Glu 2175 Lys	Lys Glu Gln <b>216</b> Asn
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628	Asn Glu Asn 2145 Asp	Pro Phe 2130 Asn Lys His	Glu 2115 Lys ) His Gln Val	2100 His Leu Ser Gln Leu 2180	Asn Cys Ser Ile Leu 2165 Gly	Val Asn Lys <b>2150</b> Val Lys	Asn 2135 Val b Leu Glu	Ser 2120 Leu Ser Gly	2105 Glu Asn Pro Thr Ala 2185	Met Val Tyr Lys 2170 Ser	Glu Glu Leu 2155 Val Pro	Lys Gly 2140 Ser Ser Lys	Thr 2125 Gly ) Gln Leu Asn	2110 Cys Ser Phe Val Val 2190	Ser Ser Gln Glu 2175 Lys	Lys Glu Gln 216 Asn Met
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629	Asn Glu Asn 2145 Asp	Pro Phe 2130 Asn Lys His	Glu 2115 Lys His Gln Val	2100 His Leu Ser Gln Leu 2180 Lys	Asn Cys Ser Ile Leu 2165 Gly	Val Asn Lys <b>2150</b> Val Lys	Asn 2135 Val b Leu Glu	Ser 2120 Leu Ser Gly Gln	2105 Glu Asn Pro Thr Ala 2185 Ser	Met Val Tyr Lys 2170 Ser	Glu Glu Leu 2155 Val Pro	Lys Gly 2140 Ser Ser Lys	Thr 2125 Gly ) Gln Leu Asn	2110 Cys Ser Phe Val Val 2190 Lys	Ser Ser Gln Glu 2175 Lys	Lys Glu Gln 216 Asn Met
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630	Asn Glu Asn 2145 Asp Ile Glu	Pro Phe 2130 Asn Lys His	Glu 2115 Lys His Gln Val Gly 2195	2100 His Leu Ser Gln Leu 2180 Lys	Asn ) Cys Ser Ile Leu 2165 Gly ) Thr	Val Asn Lys 2150 Val Lys Glu	Asn Asn 2135 Val Leu Glu Thr	Ser 2120 Leu; Ser Gly Gln Phe 2200	2105 Glu ) Asn Pro Thr Ala 2185 Ser	Met Val Tyr Lys 2170 Ser Asp	Glu Glu Leu 2155 Val Pro Val	Lys Gly 2140 Ser Ser Lys	Thr 2125 Gly ) Gln Leu Asn Val 2205	2110 Cys Ser Phe Val Val 2190 Lys	Ser Ser Gln Glu 2175 Lys Thr	Lys Glu Gln 216 Asn Met Asn
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630 2631	Asn Glu Asn 2145 Asp Ile Glu	Pro Phe 2130 Asn Lys His	Glu 2115 Lys His Gln Val Gly 2195 Val	2100 His Leu Ser Gln Leu 2180 Lys	Asn ) Cys Ser Ile Leu 2165 Gly ) Thr	Val Asn Lys 2150 Val Lys Glu	Asn Asn 2135 Val Leu Glu Thr	Ser 2120 Leu 5 Ser Gly Gln . Phe 2200 Ser	2105 Glu Asn Pro Thr Ala 2185 Ser )	Met Val Tyr Lys 2170 Ser Asp	Glu Glu Leu 2155 Val Pro Val	Lys Gly 2140 Ser Ser Lys	Thr 2125 Gly ) Gln Leu Asn Val 2205 Asn	2110 Cys Ser Phe Val Val 2190 Lys	Ser Ser Gln Glu 2175 Lys Thr	Lys Glu Gln 216 Asn Met Asn
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630	Asn Glu Asn 2145 Asp Ile Glu Ile	Pro Phe 2130 Asn Lys His Ile Glu 2210	Glu 2115 Lys His Gln Val Gly 2195 Val	2100 His Leu Ser Gln Leu 2180 Lys	Asn ) Cys Ser Ile Leu 2165 Gly ) Thr	Val Asn Lys 2150 Val Lys Glu	Asn Asn 2135 Val Leu Glu Thr Tyr 2215	Ser 2120 Leu Ser Gly Gln Phe 2200	2105 Glu Asn Pro Thr Ala 2185 Ser )	Met Val Tyr Lys 2170 Ser Asp	Glu Glu Leu 2155 Val Pro Val Ser	Lys Gly 2140 Ser Ser Lys Pro Glu 2220	Thr 2125 Gly ) Gln Leu Asn Val 2205 Asn	2110 Cys Ser Phe Val Val 2190 Lys	Ser Ser Gln Glu 2175 Lys Thr	Lys Glu Gln 216 Asn Met Asn Glu
E>	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630 2631 2632 2633	Asn Glu Asn 2145 Asp Ile Glu Ile	Pro Phe 2130 Asn Lys His Ile Glu 2210 Glu	Glu 2115 Lys His Gln Val Gly 2195 Val	2100 His Leu Ser Gln Leu 2180 Lys	Asn ) Cys Ser Ile Leu 2165 Gly ) Thr	Val Asn Lys 2150 Val Lys Glu	Asn 2135 Val Leu Glu Thr Tyr 2215 Ala	Ser 2120 Leu Ser Gly Gln Phe 2200	2105 Glu Asn Pro Thr Ala 2185 Ser )	Met Val Tyr Lys 2170 Ser Asp	Glu Glu Leu 2155 Val Pro Val Ser	Gly 2140 Ser Ser Lys Pro Glu 2220 Glu	Thr 2125 Gly ) Gln Leu Asn Val 2205 Asn	2110 Cys Ser Phe Val Val 2190 Lys	Ser Ser Gln Glu 2175 Lys Thr	Lys Glu Gln 216 Asn Met Asn Glu
	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630 2631 2632 2633	Asn Glu Asn 2145 Asp Ile Glu Ile Thr 2225	Pro Phe 2130 Asn Lys His Glu 2210 Glu	Glu 2115 Lys His Gln Val Cly 2195 Val	2100 His Leu Ser Gln Leu 2180 Lys Cys	Asn Cys Ser Ile Leu 2165 Gly Thr Ser Glu	Val Asn Lys 2150 Val Lys Glu Thr Ile 2230	Asn 2135 Val Leu Glu Thr Tyr 2215 Ala	Ser 2120 Leu Ser Gly Gln Phe 2200 Ser	2105 Glu Asn Pro Thr Ala 2185 Ser Lys Ala	Met Val Tyr Lys 2170 Ser Asp Asp	Glu Glu Leu 2155 Val Pro Val Ser Met 2235	Lys Gly 2140 Ser Ser Lys Pro Glu 2220 Glu	Thr 2125 Gly Gln Leu Asn Val 2205 Asn	2110 Cys Ser Phe Val Val 2190 Lys Tyr	Ser Ser Gln Glu 2175 Lys Thr Phe Glu	Lys Glu Gln 216 Asn Met Asn Glu Leu 224
	2617 2618 2619 2620 2621 2622 2623 <b>2624</b> 2625 2626 2627 2628 2629 2630 2631 2632 2633 <b>2634</b>	Asn Glu Asn 2145 Asp Ile Glu Ile Thr 2225 Thr	Pro Phe 2130 Asn Lys His Glu 2210 Glu Asp	Glu 2115 Lys His Gln Val Gly 2195 Val	2100 His Leu Ser Gln Leu 2180 Lys Cys Val	Asn Cys Ser Ile Leu 2165 Gly Thr Ser Glu Leu 2245	Val Asn Lys 2150 Val Lys Glu Thr Ile 2230 Pro	Asn 2135 Val Leu Glu Thr Tyr 2215 Ala Ser	Ser 2120 Leu Ser Gly Gln Phe 2200 Ser Lys His	2105 Glu Asn Pro Thr Ala 2185 Ser Lys Ala Ala	Met Val Tyr Lys 2170 Ser Asp Asp Phe Thr 2250	Glu Glu Leu 2155 Val Pro Val Ser Met 2235 His	Lys Gly 2140 Ser Ser Lys Pro Glu 2220 Glu Ser	Thr 2125 Gly Gln Leu Asn Val 2205 Asn ) Asp	2110 Cys Ser Phe Val Val 2190 Lys Tyr Asp	Ser Ser Gln Glu 2175 Lys Thr Phe Glu Thr 2255	Lys Glu Gln 216 Asn Met Asn Glu Leu 224 Cys

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	2638				2260	Э				226	5				2270	)	
	2639	Arq	Gly	Glu			Ile	Leu	Val			Pro	Ser	Ile			Asn
	2640	_	-	227!					2280					2285	_		
	2641	Leu	Leu	Asn	Glu	Phe	Asp	Arg			Glu	Asn	Gln	Glu	Lys	Ser	Leu
	2642		2290					2295					230		_		
	2643	Lys	Ala	Ser	Lys	Ser	Thr	Pro	Asp	Gly	Thr	Ile	Lys	Asp	Arg	Arg	Leu
E>	2644	230					231					2315		-	_	-	232
	2645	Phe	Met	His	His	Val	Ser	Leu	Glu	Pro	Ile	Thr	Cys	Val	Pro	Phe	Arg
	2646					2325	5				2330	)				2335	5
	2647	Thr	Thr	Lys	Glu	Arg	Gln	Glu	Ile	Gln	Asn	Pro	Asn	Phe	Thr	Ala	Pro
	2648				2340	)				2345	ō				2350	)	
	2649	Gly	Gln	Glu	Phe	Leu	Ser	Lys	Ser	His	Leu	Tyr	Glu	His	Leu	Thr	Leu
	2650			235					2360					2365			
	2651	Glu	Lys		Ser	Ser	Asn			Val	Ser	Gly			Phe	Tyr	Gln
	2652		2370					2375					2380				
	2653		Ser	Ala	Thr	Arg			Lys	Met	Arg			Ile	Thr	Thr	-
E>		2385	_	m1	-		2390			_		2395		_	~		240
	2655	Arg	Pro	Thr	ГЛЗ			Val	Pro	Pro			Thr	Lys	Ser		
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	2657 2658	HIS	Arg	val			Cys	val	Arg			Asn	ьеи	GIU			Arg
	2659	C1.	Lys	Cln	2420		7) 020	C1	111.0	2425		7) 0,000	7)	0.020	2430		T
	2660	GIII	пур	2435		116	АЗР	ĠŢĀ	2440		ser	ASP	Asp	2445		ASII	гуѕ
	2661	Tla	Asn			Glu	Tla	Hic			Aen	T.ve	Δen			Δen	Gln
	2662	110	2450		11011	OLU	110	2455		1110	77.011	пуз	2460		DCL	17011	OLII
	2663	Ala	Ala		Val	Thr	Phe			Cvs	Glu	Glu			Len	Asp	Leu
E>		2465		11,20	, 0, 1,		2470			010	01.0	2475			2300	p	248
	2665		Thr	Ser	Leu	Gln			Arq	Asp	Ile			Met	Arq	Ile	
	2666					2485			-,	-	2490		1.		,	2495	-
	2667	Lys	Lys	Gln	Arg	Gln	Arg	Val	Phe	Pro	Gln	Pro	Gly	Ser	Leu	Tyr	Leu
	2668				2500	)				2505	5				2510	)	
	2669	Ala	Lys	Thr	Ser	Thr	Leu	Pro	Arg	Ile	Ser	Leu	Lys	Ala	Ala	Val	Gly
	2670			2515	5				2520	)				2525	5		
	2671	Gly	Gln	Val	Pro	Ser	Ala	Cys	Ser	His	Lys	Gln	Leu	Tyr	Thr	Tyr	Gly
	2672		2530					2535					2540				
	2673		Ser	Lys	His	Cys			Ile	Asn	Ser			Ala	Glu	Ser	
E>		2545					2550			_		2555					256
	2675	Gln	Phe	His	Thr			Tyr	Phe	Gly			Ser	Leu	Trp		
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E>		2625	_	T T C	11C	TTP	2630		* 7 T CI	1.3.∓ CI	14C C	2635	_	171 C	7 11C		264
- /	2685		Phe	Ala	Asn	Ara			Ser	Pro	G] 11			Leu	Leu	Gln	
	2686					2645					2650		. 0			2655	

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Input Set : A:\G150581u.txt

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	2687 <sub>.</sub> 2688	Lys	Tyr	Arg	Tyr 2660		Thr	Glu	Ile	Asp 2665	-	Ser	Arg	Arg	Ser 2670		Ile
	2689 2690	Lys	Lys	Ile 2675		Glu	Arg	Asp	Asp 2680		Ala	Ala	Lys	Thr 2685		Val	Leu
	2691 2692	Cys	Val 2690		Asp	Ile	Ile	Ser 2695		Ser	Ala	Asn	Ile 2700		Glu	Thr	Ser
E>	2693 <b>2694</b>	Ser 2705	Asn	-	Thr	Ser	Ser <b>271</b> 0	Ala		Thr	Gln	Lys <b>271</b> 5	Val		Ile	Ile	Glu <b>272</b>
	2695		Thr	Asp	Gly	Trp			Val	Lys	Ala			Asp	Pro	Pro	
	2696				_	2725	5			_	2730	)				2735	5
	2697 2698		Ala		2740	)				2745	5				2750	)	
	2699	Leu	His			Glu	Leu	Val			Pro	Asp	Ala			Pro	Leu
	2700	a i	70.7	2755	-	<b>a</b>	<b>.</b>		2760		1	~	70 7	2765	-	m.)	**
	2701 2702		Ala 2770	)				2775	ō				2780	) .			
	2703		Ala	Arg	Trp	Tyr			Leu	Gly	Phe			Asp	Pro	Arg	
E>		2785		_	***	_	2790		-	<b></b>	<u>~</u>	2795			_	1	280
	2705 2706	Phe	Pro	Leu	Pro	Leu 2805		Ser	Leu	Phe	Ser 2810		GTA	GIĀ	Asn	Val 2815	
	2707	Cve	Val	Δen	Val			Gln	Δra	Δla			Tle	Gln			
	2708	Cys	Val	1100	2820		.LL. C	0111	111. g	2825		110	110	CIII	2830		Ora
	2709	Lys	Thr	Ser			Leu	Tyr	Ile			Asn	Glu	Arg	Glu	Glu	Glu
	2710	_		2835		_			2840					2845			
	2711	Lys	Glu		Ala	Lys	-			Ala	Gln	Gln		_	Leu	Glu	Ala
	2712	_	2850		<b>~</b>	T		2855		<b>7</b> .1	C I	~ l	2860		a l	70	m1
	2713		Phe	Thr	Lys	TTe			GLu	Phe	Glu			Glu	GLu	Asn	
E>	2714	2865		Droo	Птт	Toil	2870		7) 25 07	7\ 1 \	T 011	2875		Cln	Cln	Wa 1	288
	2716	TIIT	Lys	FIO	тут	2885		per	ALG	ита	2890		Arg	GIII	GIII	2895	
	2717	Ala	Leu	Gln	Asp			Glu	Leu	Tvr			Val	Lvs	Asn		
	2718				2900					2905					2910		
	2719	Asp	Pro			Leu	Glu				Ser	Glu	Glu			Arg	Ala
	2720	<b>T</b>	70 .	2915		m	G1 .		2920		70	т	т	2925		G1.	m: 1 _
	2721 2722	Leu	Asn 2930		HIS	Arg	GIN	Met 2935		Asn	Asp	гуѕ	ьуs 294(		Ата	GIN	тте
	2723	Gln	Leu		Tle	Δrα	T.vs			Glu	Ser	Δla			P.V.T	Glu	Gln
E>		2945		O.L.u		**** 9	2950		1100	- L	002	2955		0111	LL y U	010	296
	2725		Leu	Ser	Arg	Asp			Thr	Val	Trp			Arg	Ile	Val	
	2726	_				2965					2970			_		2975	
	2727	Tyr	Ser	Lys			Lys	Asp	Ser			Leu	Ser	Ile			Pro
	2728	_	~	_	2980		-	_	_	2985		~3	_		2990		~ 2
	2729	Ser	Ser	-		Tyr	Ser	Leu			GLu	GTŸ	Lys			Arg	TTE
	2730 2731	ጥ፣፣፦	His	2995		Thr	802	Τ	3000		802	Luc	902	3005		70.1 -2	Acn
	2732	т Ат	3010		ATG	TIIT	Set	шуs 3015		тÃЯ	Set	пХр	3020		AL Y	пта	MOII
	2732	Tle	Gln		Ala	Ala	Thr			Thr	Gln	Tvr			Len	Pro	Val
E>		3025		20 U	UL	4	3030		~_10		x	3035					304
	2735		Asp	Glu	Ile	Leu			Ile	Tyr	Gln	Pro	Arg	Glu	Pro	Leu	His





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	2736					3045	5				3050	)				3055	ő
	2737	Phe	Ser	Lys	Phe	Leu	Asp	Pro	Asp	Phe			Ser	Cys	Ser	Glu	Val
	2738			-	3060		~		~	3065				-	3070		
	2739	Asp	Leu	Ile	Gly	Phe	Val	Val	Ser	Val	Val	Lys	Lys	Thr	Gly	Leu	Ala
	2740			3075	5				3080	)				3085	5		
	2741 2742	Pro	Phe 3090		Tyr	Leu	Ser	Asp 3095		Cys	Tyr	Asn	Leu 3100		Ala	Ile	Lys
	2743	Phe	Trp	Ile	Asp	Leu	Asn	Glu	Asp	Ile	Ile	Lys	Pro	His	Met	Leu	Ile
E>	2744	3109	5		_		3110	)	_			3115	5				312
	2745	Ala	Ala	Ser	Asn	Leu	Gln	Trp	Arg	Pro	Glu	Ser	Lys	Ser	Gly	Leu	Leu
	2746					3125					3130					3135	
	2747	Thr	Leu	Phe	Ala	Gly	Asp	Phe	Ser	Val	Phe	Ser	Ala	Ser	Pro	Lys	Glu
	2748				3140					3145					3150		
	2749	Gly	His			Glu	Thr	Phe			Met	Lys	Asn		Val	Glu	Asn
	2750			3155					3160					3165			_
	2751	Ile			Leu	Cys	Asn			Glu	Asn	Lys			His	Ile	Leu
	2752		3170		-	_		3175		m1	_	PR.1	3180			m1	
	2753			Asn	Asp	Pro			Ser	Thr	Pro			Asp	Cys	Thr	
E>	2754	3185			m1	70 71	3190		T ] ~	Diag	c:1	3195	-	7\	T	Т олг	320
	2755	GTÀ	Pro	Tyr	Tur	3205		116	тте	PLO	3210		GTÀ	ASII	Lys	3215	
	2756 2757	Mot	Cox	Cor	Dwo			Clu	Tlo	444			Sor	Dro	Leu		
	2758	Mec	ser	Ser	3220		Cys	Giu	TTE	3225		GTII	ser	ETO	3230		пеп
	2759	Cvs	Mot	Δla			T.VS	Ser	Val			Pro	Val	Ser	Ala		Met
	2760	Cys	1100	3235		111.9	Lyo	501	3240			110	V CL.	3245		0111	1100
	2761	Thr	Ser			Cvs	Lvs	Glv			Glu	Ile	Asp		Gln	Lys	Asn
	2762		3250	_		7 -	-	3255		- 1			3260				
	2763	Cys	Lys	Lys	Arg	Arg	Ala	Leu	Asp	Phe	Leu	Ser	Arg	Leu	Pro	Leu	Pro
E>	2764	3265		-	_	-	3270		_			3275					328
	2765	Pro	Pro	Val	Ser	Pro	Ile	Cys	Thr	Phe-	Val	Ser	Pro	Ala	Ala	Gln	Lys
	2766					3285	5				3290	)				3295	;
	2767	Ala	Phe	Gln	Pro	Pro	Arg	Ser	Cys	Gly	Thr	Lys	Tyr	Glu	Thr	Pro	Ile
	2768				3300					3305					3310		
	2769	Lys	Lys			Leu	Asn	Ser			Met	Thr	Pro		Lys	Lys	Phe
	2770			3315	-				3320					3325		~ 1	-
	2771	Asn			Ser	Leu	Leu			Asn	Ser	He			Glu	Glu	Leu
	2772	n 1 .	3330		70	m)	<b>~1</b>	3335		т	C	C1	3340		C1	C1	T
<b>77</b>	2773			тте	Asn	THY			пеп	теп	ser			IIIL	Gly	GLU	туs <b>336</b>
E>	<b>2774</b> 2775	3345		Tlo	Car	Ual	3350		Cor	Thr	7) ra	3355		Dro	Thr	Sor	
	2776	GTII	rne	TTE	Set	3365		Gra	эет	1117	3370		ALA	110	TILL	3375	
	2777	G111	Aen	Tur	T.a.ı			T.376	Δrα	Δra			Thr	Ser	Leu		
	2778	OLU	1150	тут	3380		LCu	БУБ	111.9	3385		<u>.</u>		001	3390		
	2779	Glu	Gln	Glu			Gln	Ala	Ser			Glu	Cvs	Glu	Lys		Lvs
	2780	012 0	02.11	3395					3400				4	3405			_
	2781	Gln	Asp		Ile	Thr	Thr	Lvs			Ile						
	2782		341(					3415						_ <	?		
	3666	(2)	INFO	RMAT	ON E	FOR S	SEQ I	D NO	): 9:	:				12	)		
	3668		(i)	SEQU	JENCE	CHA	ARACT	ERIS	STICS	S:			アレ				
											1	M	U				
											- 70	<b>{</b>					

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Input Set :  $A:\G150581u.txt$ 

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3669 3670 3671 3672 3674		(ii)		) TY1 ) ST1 ) TO1	PE: 8 RANDI POLO	amino EDNES GY: :	l8 ar caci SS: s linea prote	id singi ar		ds						
3675							inte									
3677		(xi)	SEQU	JENCI	E DES	SCRI	OITS	v: SI	EO II	ONO:	9:					
3679												Phe	Glu	Ile	Phe	Lvs
3680	1			-4	5	-		,		10					15	_
368İ	Thr	Arq	Cvs	Asn	Lys	Ala	Asp	Leu	Glv	Pro	Ile	Ser	Leu	Asn	Trp	Phe
3682			_	20	,		_		25					30	_	
3683	Glu	Glu	Leu	Ser	Ser	Glu	Ala	Pro	Pro	Tvr	Asn	Ser	Glu	Pro	Ala	Glu
3684			35					40		2			45			
3685	Glu	Ser	Glu	Hi.s	Lvs	Asn	Asn	Asn	Tvr	Glu	Pro	Asn	Leu	Phe	Lys	Thr
3686		50					55		- 2			60			- 2	
3687	Pro	Gln	Ara	Lvs	Pro	Ser	Tvr	Asn	Gln	Leu	Ala	Ser	Thr	Pro	Ile	Ile
3688	65					70	4 -				75					80
3689	Phe	Lvs	Glu	Gln	Glv	Leu	Thr	Leu	Pro	Leu	Tvr	Gln	Ser	Pro	Val	Lvs
3690		- 2			85					90					95	_
3691	Glu	Leu	Asp	Lvs		Lvs	Leu	Asp	Leu	Glv	Ara	Asn	Val	Pro	Asn	Ser
3692				100		1			105					110		
3693	Ara	His	Lvs		Leu	Ara	Thr	Val		Thr	Lvs	Met	Asp		Ala	Asp
3694			115			5		120	-1-				125			
3695	Asp	Val		Cvs	Pro	Leu	Leu		Ser	Cvs	Leu	Ser	Glu	Ser	Pro	Val
3696	-	130					135			-		140				
3697	Val	Leu	Gln	Cvs	Thr	His	Val	Thr	Pro	Gln	Arg	Asp	Lys	Ser	Val	Val
3698	145			- 4		150					155	-	-4			160
3699	Cvs	Glv	Ser	Leu	Phe	His	Thr	Pro	Lvs	Phe	Val	Lvs	Gly	Arq	Gln	Thr
3700	- 1				165				4	170		-	-		175	
3701	Pro	Lvs	His	Ile	Ser	Glu	Ser	Leu	Glv		Glu	Va1	Asp	Pro	Asp	Met
3702		-1		180					185					190	*	
3703	Ser	Trp	Ser	Ser	Ser	Leu	Ala	Thr	Pro	Pro	Thr	Leu	Ser	Ser	Thr	Val
3704		-	195					200					205			
3705	Leu	Ile	Val	Ara	Asn	Glu	Glu	Ala	Ser	Glu	Thr	Val	Phe	Pro	His	Asp
3706		210					215					220				-
3707	Thr	Thr	Ala	Asn	Val	Lys	Ser	Tyr	Phe	Ser	Asn	His	Asp	Glu	Ser	Leu
3708	225					230		_			235					240
3709	Lys	Lys	Asn	Asp	Arq	Phe	Ile	Ala	Ser	Val	Thr	Asp	Ser	Glu	Asn	Thr
3710	-4				245					250		-			255	
3711	Asn	Gln	Arg	Glu	Ala	Ala	Ser	His	Gly	Phe	Gly	Lys	Thr	Ser	Gly	Asn
3712			_	260					265		_			270		
3713	Ser	Phe	Lys	Val	Asn	Ser	Cys	Lys	Asp	His	Ile	Gly	Lys	Ser	Met	Pro
3714			275				-	280	-			_	285			
3715	His	Val	Leu	Glu	Asp	Glu	Val	Tyr	Glu	Thr	Val	Val	Asp	Thr	Ser	Glu
3716		290			-		295	-				300	_			
3717	Glu	Asp	Ser	Phe	Ser	Leu	Cys	Phe	Ser	Lys	Cys	Arg	Thr	Lys	Asn	Leu
3718	305	-				310	-				315	-		-		320
3719	Gln	Lys	Val	Arg	Thr	Ser	Lys	Thr	Arg	Lys	Lys	Ile	Phe	His	Glu	Ala
3720		•			325					330					335	



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3721 3722	Asn	Ala	Asp	Glu 340	Cys	Glu	Lys	Ser	Lys 345	Asn	Gln	Val	Lys	Glu 350	Lys	Tyr
3723 3724	Ser	Phe	Val 355	Ser	Glu	Val	Glu	Pro 360		Asp	Thr	Asp	Pro 365		Asp	Ser
3725	Asn	Val		Asn	Gln	Lys			Glu	Ser	Gly			Lys	Ile	Ser
3726 3727	Lys	370 Glu	Val	Val	Pro	Ser	375 Leu	Ala	Cys	Glu	Trp	380 Ser	Gln	Leu	Thr	Leu
3728	385					390					395					400
3729 3730	Ser	Gly	Leu	Asn	Gly 405	Ala	Gln	Met	Glu	Lys 410	Ile	Pro	Leu	Leu	His 415	Ile
3731 3732	Ser	Ser	Суѕ	Asp 420	Gln	Asn	Ile	Ser	Glu 425	Lys	Asp	Leu	Leu	Asp 430	Thr	Glu
3733 3734	Asn	Lys	Arg 435	Lys	Lys	Asp	Phe	Leu 440		Ser	Glu	Asn	Ser 445	Leu	Pro	Arg
3735	Ile	Ser		Leu	Pro	Lys			Lys	Pro	Leu			Glu	Thr	Val
3736 3737	77 ~ 7	450	7	7) 20 07	7) ax	C1.11	455	Cln	uic	T 011	C1	460	шіа	шЬх	7 0 20	Circ
3738	465	Asn	гуз	Arg	Asp	470	GLU	GTH	птѕ	Leu	475	ser	піѕ	THE	Asp	480
3739	Ile	Leu	Ala	Val	Lys	Gln	Ala	Ile	Ser	Gly	Thr	Ser	Pro	Val	Ala	Ser
3740					485					490				•	495	
3741	Ser	Phe	Gln		Ile	Lys	Lys	Ser		Phe	Arg	Ile	Arg		Ser	Pro
3742	T	C1	mb	500	7\~~	70.7	0.00	Dha	505	C1	II day	Mat	mb an	510	D	7)
3743 3744	ьуѕ	Glu	515	rne	ASII	Ата	ser	520	ser	СТХ	HIS	мет	525	Asp	Pro	Asn
3745 3746	Phe	Lys 530	Lys	Glu	Thr	Glu	Ala 535	Ser	Glu	Ser	Gly	Leu 540	Glu	Ile	His	Thr
3747	Val	Суѕ	Ser	Gln	Lys	Glu	Asp	Ser	Leu	Cys	Pro	Asn	Leu	Ile	Asp	Asn
3748	545					550					555					560
3749	Glу	Ser	Trp	Pro		Thr	Thr	Thr	Gln		Ser	Val	Ala	Leu		Asn
3750	70.7	<b>C</b> 1	<b>T</b>	T 7 .	565	mat .	T	<b>.</b>	_	570	m1	70.	<b>T</b>	D1.	575	m
3751 3752	Ата	Gly	Leu	580	ser	THE	ьeu	ьуѕ	ьуs 585	гуѕ	THE	Asn	ьуs	590	TTE	Tyr
3753	Ala	Ile	His	Asp	Glu	Thr	Ser	Tyr	Lys	Gly	Lys	Lys	Ile	Pro	Lys	Asp
3754			595					600	Ţ				605			
3755	Gln	Lys	Ser	Glu	Leu	Ile		Cys	Ser	Ala	Gln		Glu	Ala	Asn	Ala
3756	n)	610	70 7	_	<b>-</b>	en i	615		70.		70	620	<b>a</b> 3	-	_	
3757 3758		Glu	Ala	Pro	Leu		Phe	Ala	Asn	Ата	635	ser	GTA	Leu	Leu	
3759	625	Ser	W-1	T	7) roa	630	Cvc	Sor	Cln	7 cn		802	Clu	Clu	Pro	640
3760	Ser	Der	v a.r.	плэ	645	Ser.	Суз	ser	9711	650	тэр	DET	GIU	GLU	655	TILL
3761	Leu	Ser	Len	Thr		Ser	Phe	Glv	Thr		Leu	Ara	Lvs	Cvs	_	Ara
3762				660	00.2	~~~		1	665					670		9
3763	Asn	Glu	Thr	Cys	Ser	Asn	Asn	Thr	Val	Ile	Ser	Gln	Asp	Leu	Asp	Tyr
3764			675					680					685			
3765	Lys	Glu	Ala	Lys	Cys	Asn	Lys	Glu	Lys	Leu	Gln	Leu	Phe	Ile	Thr	Pro
3766		690					695					700				
3767		Ala	Asp	Ser	Leu		Cys	Leu	Gln	Glu		Gln	Cys	Glu	Asn	
3768	705	T ***	C ~ ~	T	T	710	C ~ ~	7. ~ ~	т1.	T	715	C1	77-7	T 0::	7\ 1 ~	720
3769	Pr.O	Lys	ser	тЛЗ	пλа	val	ser	Asp	тте	тАг	GTU	GTU	۸ar	ьeu	HTG	Ald





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	3770					725					730					735		
	3771	Ala	Cvs	His	Pro		Gln	His	Ser	Lvs		Glu	Tvr	Ser	Asp	-	Asp	
	3772		- 1		740					745		0	- 1 2		750		I-	
	3773	Phe	Gln	Ser		Lvs	Ser	Leu	Leu		Asp	His	G111	Asn		Ser	Thr	
	3774			755		-1			760	2	<u>T</u> -			765				
	3775	Leu	Ile		Thr	Pro	Thr	Ser		Asp	Val	Leu	Ser		Leu	Va1	Met.	
	3776		770					775	-1-	I			780					
	3777	Ile		Ara	Glv	Lvs	Glu		Tvr	Lvs	Met	Ser		Lvs	Leu	Lvs	Glv	
	3778	785		9	2	1	790		- 1	1		795		-1 -		-1-	800	
	3779	Asn	Asn	Tvr	Glu	Ser	Asp	Val	G1u	Leu	Thr		Asn	Ile	Pro	Met		
	3780			-		805	-				810	4				815		
	3781	Lys	Asn	Gln	Asp		Cys	Ala	Leu	Asn		Asn	Tvr	Lvs	Asn		Glu	
	3782				820		- 4			825				_1	830			
	3783	Leu	Leu	Pro	Pro	Glu	Lys	Tyr	Met	Ara	Val	Ala	Ser	Pro	Ser	Ara	Lvs	
	3784			835				-4	840	,				845			- 2	
	3785	Val	Gln	Phe	Asn	Gln	Asn	Thr	Asn	Leu	Arq	Val	Ile	Gln	Lys	Asn	Gln	
r	3786		850					855			_		860		-4			
	3787	Glu	Glu	Thr	Thr	Ser	Ile	Ser	Lys	Ile	Thr	Val	Asn	Pro	Asp	Ser	Glu	
	3788	865					870		•			875			-		880	
	3789	Glu	Leu	Phe	Ser	Asp	Asn	Glu	Asn	Asn	Phe	Val	Phe	Gln	Val	Ala	Asn	
	3790					885					890					895		
	3791	Glu	Arg	Asn	Asn	Leu	Ala	Leu	Gly	Asn	Thr	Lys	Glu	Leu	His	Glu	Thr	
	3792				900				-	905					910			
	3793	Asp	Leu	Thr	Cys	Val	Asn	Glu	Pro	Ile	Phe	Lys	Asn	Ser	Thr	Met	Val	
	3794			915					920					925				
	3795	Leu	Tyr	Gly	Asp	Thr	Gly	Asp	Lys	Gln	Ala	Thr	Gln	Val	Ser	Ile	Lys	
	3796		930					935					940					
	3797	Lys	Asp	Leu	Val	Tyr	Val	Leu	Ala	Glu	Glu	Asn	Lys	Asn	Ser	Val	Lys	
	3798	945					950					955					960	
	3799	Gln	His	Ile	Lys	Met	Thr	Leu	Gly	Gln	Asp	Leu	Lys	Ser	Asp	Ile	Ser	
	3800					965					970					975		
	3801	Leu	Asn	Ile	Asp	Lys	Ile	Pro	Glu	Lys	Asn	Asn	Asp	Tyr	Met	Asp	Lys	
	3802				980					985					990			
	3803	Trp	Ala	Gly	Leu	Leu	Gly	Pro	Ile	Ser	Asn	His	Ser	Phe	Gly	Gly	Ser	
	3804			995					1000					1005				
	3805	Phe	Arg	Thr	Ala	Ser	Asn			Ile	Lys	Leu	Ser	Glu	His	Asn	Ile	
	3806		1010					1015					1020					
	3807		_	Ser	Lys	Met	Phe		Lys	Asp	Ile			Gln	Tyr	Pro	The	1 -1/-
E>		1025					1030					1035				_ (	104	1040
	3809	Ser	Leu	Ala	Cys		Glu	Ile	Val	Asn			Ala	Leu	Asp			
	3810					1045					1050			_		1055		
	3811	Lys	Lys	Leu			Pro	Gln	Ser			Thr	Val	Ser			Leu	
	3812	_			1060					1065					1070		_	
	3813	Gln	Ser			Val	Val	Ser		_	Lys	Asn	Ser			Thr	Pro	
	3814			1075		_	_		1080		_		_	1085		_		
	3815	Gln			Phe	Ser	Lys			Phe	Asn	Ser			Asn	геп	Thr	
	3816	_	1090		~		<b>~</b> 7	1095		C 3	-	~	1100		~	<b>01</b>	C 1	
<b>.</b>	3817			Gln	глг	Ala	Glu		Tnr	GLU	ьeu			тте	ьeu	GTII	- F.	10
E>	RIBE	1105	)				1110	,				1115	)			(	112	100





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Input Set : A:\G150581u.txt Output Set: N:\CRF3\06252001\I084471B.raw

	3819.	Ser	Gly	Ser	Gln	Phe	Glu	Phe	Thr	Gln	Phe	Arg	Lys	Pro	Ser	Tyr	Ile
	3820					112	ō				1130	)				1135	ō
	3821	Leu	Gln	Lys	Ser	Thr	Phe	Glu	Val	Pro	Glu	Asn	Gln	Met	Thr	Ile	Leu
	3822				1140	)				1145	5				1150	)	
	3823	Lys	Thr	Thr	Ser	Glu	Glu	Cys	Arg	Asp	Ala	Asp	Leu	His	Val	Ile	Met
	3824			1155	5				1160	) _				1165	5		
	3825	Asn	Ala	Pro	Ser	Ile	Gly	Gln	Val	Asp	Ser	Ser	Lys	Gln	Phe	Glu	Glv
	3826		1170					1175		-			1180				-
	3827	Thr	Val	Glu	Ile	Lvs	Ara	Lvs	Phe	Ala	Glv	Leu	Leu	Lvs	Asn	Asp	Cvs
E>	3828	118				-1	1190					1195		2		1.	120
	3829		Lys	Ser	Ala	Ser			Len	Thr	Asp			Glu	Val	Glv	
	3830	2.0.1	,22,70			120!	_	- 1 -			1210					1215	
	3831	Ara	Gly	Phe	Tyr			His	Glv	Thr			Asn	Val	Ser		
	3832	9	-1		1220				J 1	1225					1230		
	3833	Ala	Leu	Gln			Val	Lvs	T.em			Asp	Tle	G111			Ser
	3834	11L CI	шса	1235		111. CI	val	ن ر دد	1240		DOI	1100	110	1245		110	001
	3835	Glu	Glu			Δ1а	Glii	Val			Tle	Ser	T <sub>i</sub> e11			Ser	Lvs
	3836	GIU	1250		DCI	rula	U.L.u.	1255		110	110	DCL	1260		DCI	DCI	2 ر ت
	3837	Czze	His		Sar	Val.	[eV			Dhe	T.376	Tle			His	Asn	Asn
E	3838	126!		r25	Der	VCL	1270		1100	1110	шуо	1275		21011	11115	21011	128
E>	3839		Thr	U = 1	Sar	Glu			Aen	Tare	C176			Tle	Len	Gln	
	3840	c yu.	7.117	A CT T	Der	128	-	7211	ASII	шуз	1290		1104	110	шеа	1295	
	3841	Aen	Ile	Glu	Mat			Clu	Thr	Dho			Glu	Tlo	Thr		
	3842	71511	TTC	GLU	1300		4.11.1.	Gry	T.11T	1309		OLU	Oid	110	1310		11011
	3843	Тиг	Lys	Λrα			G111	Aen	Glu			Luc	Tur	Thr			Ser
	3844	т ў т	пуз	131		7777	GIU	ABII	1320		11011	шус	1 Y L	1325		2114	DCI
	3845	7) 20 00	Asn			Acn	T 011	Glu			Glu	Sor	Aen			T.179	Aen
	3846	Arg	1330		III	USII	пеп	1335		дар	Сту	per	134		Der	цуз	21311
		7 00	Thr		Cvia	т1.	uia			C711	Thr	7\02			Dho	Thr	Nen
<del>10</del> \	3847			val	Cys	TTG	1350		АБР	GLU	TIIL	1355		Бец	1.110	TIIT	136
E>	3848	134!		70	77.	Circ			T 0.11	Com	C1.,			Mot	T ***	C1.11	
	3849	GIII	His	ASII.	тте			гЛг	теп	per	1370		File	Mec	пур	1375	
	3850	71 ~~~	III le 20	C1 -	т1.	1365		7\ ~ ~ ~	T 011	Cor			mb v	Dho	Ton		
	3851	ASII	Thr	GTII		_	GIU	ASP	ьеи	1385		цец	TIIT		1390		V al II.
	3852	70.7 -	*	70.7 -	1380		70.1	Q	TT			mls -a					C1 5
	3853	Ald	Lys			GLU	Ard	Cys	1400	_	ASII	1111	per	1405		GIU	GTII
	3854	т	mb a	1395		T	mh ac	C1.:			Tla	Tira	Λαν			mb x	Sar
	3855	ьеи	Thr		THE	гуз	THE			HSII	TTG	гуз	1420		GIU	TIIT	per
	3856	70	1410		D1	G3	ml	1415		C 7	T	70		-	170 T	70 7 -	Tira
	3857		Thr	Pne	Pne	GTII			Ser	GTĀ	гЛЗ			per	val	Ала	
E>	3858	142!		70.1	70	т	1430	-	7)	Dia -	Dl	1435		т	Deco	C 7	144
	3859	GLu	Ser	Pne	Asn			val	Asn	Fue			GTII	туг	PIO		
	3860			70	D.I	1445		70 .	Q	C1	1450		C	7\	T 1 ~	1455	
	3861	Leu	His	Asn			Leu	Asn	Ser			HIS	ser	Asp			гуѕ
	3862	_	-		1460			<u> </u>	_	1465		eni .	70 -	T 1 -	1470		77.2 -
	3863	Asn	Lys		_	TTE	Leu	Ser			GLU	Tur	Asp			гàг	HIS
	3864	-		147!		~ •	_		1480		<b>a</b> 3	mı	0.7	1485		т	77.7
	3865	ьys	Ile		ГÀЗ	GLu	Ser			val	GTA	Thr			GTU	ьeu	val
	3866	en.	1490		<b>~</b> 3	0.1	75	1495		7)	a ı	~	1500		<b>C1.</b>	D	m)
	3867	Thr	Phe	Gln	GTA	GIn	Pro	GLu	Arg	Asp	ьLи	гля	тте	ьys	GTU	rro	THY





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Input Set : A:\G150581u.txt

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E>	3868	1505	5				1510	)				1515	5				152
	3869	Leu	Leu	Gly	Phe	His	$\operatorname{Th} r$	Ala	Ser	Gly	Lys	Lys	Val	Lys	Ile	Ala	Lys
	3870					1525					`1530					1535	
	3871	Glu	Ser	Leu			Val	Lys	Asn			Asp	Glu	Lys			Glу
	3872		_		1540		_		_	1545				_	1550		_
	3873	Thr	Ser	Glu		Thr	Ser	Phe			GIn	Trp	Ala			Leu	Lys
	3874. 3875	m	7)	1555		0	τ	7	1560		т	70.7 -	G	1565		т1.	C1
	3876	TAL	1570	Glu	Ата	Cys	ьуѕ	1575		GIU	Leu	ALA	1580		TUT.	тте	GLU
	3877	Tla		Ala	ΔΙα	Pro	T.379			Gl <sub>11</sub>	Mat	Gln			T.611	Δen	Acn
E>		1585		211, CI	711. CI	110	1590	_	шуы	OLU	ric t	1595		DGT	шеи	71.511	160
	3879			Asn	Leu	Val			Glu	Thr	Val			Pro	Lvs	Leu	
	3880	F				1605					1610				-1-	1615	
	3881	Ser	qaA	Asn	Leu	Cys	Arq	Gln	Thr	Glu	Asn	Leu	Lys	Thr	Ser	Lys	Ser
	3882		_		1620					1625			_		1630		
	3883	Ile	Phe	Leu	Lys	Val	Lys	Val	His	Glu	Asn	Val	Glu	Lys	Glu	Thr	Ala
	3884			1635	5				1640	)				1645	5		
	3885	Lys	Ser	Pro	Ala	Thr	Cys			Asn	Gln	Ser	Pro	Tyr	Ser	Val	Ile
	3886		1650					1655					1660				
	3887			Ser	Ala	Leu			Tyr	Thr	Ser			Arg	Lys	Thr	
E>		1665				_	1670		~ 1		_	1675		_		<b>~</b> 1	168
	3889	Val	Ser	Gln	Thr			Leu	Glu	Ala			Trp	Leu	Arg		
	3890 3891	т1.	Dho	Asp	C1.	1685		Cl.,	7) 22 02	Tlo	1690		7/1/2	7) ar	Trin	1695	
	3892	TTC	FIIE	Asp	1700		E L O	GLU	Arg	1705		7117	Ата	дар	1710		GTĀ
	3893	Asn	Tvr	Leu			Asn	Asn	Ser			Thr	Ile	Ala			Asp
	3894		- 1 -	1715	_				1720					1725			
	3895	Lys	Asn	His		Ser	Ġlu	Lys			Thr	Tyr	Leu	Ser	Asn	Ser	Ser
	3896	_	1730					1735					1740				
	3897	Met	Ser	Asn	Ser	Tyr	Ser	Tyr	His	Ser	Asp	Glu	Val	Tyr	Asn	Asp	Ser
E>		1745					1750					1755					176
	3899	Gly	Tyr	Leu	Ser	_		Lys	Leu	Asp			Ile	Glu	Pro		
	3900	_	_	** 7	~ 3	1765		_	_	m)	1770			-		.1775	
	3901	гàг	Asn	Val	1780		GIn	гля	Asn	1785		Pne	ser	ьуs	1790		ser
	3902 3903	7) aro	17-1	Lys			7 an	717 ~	Tir			Thr	Val	7) cm			a l T
	3904	ASII	val	1795	_	ДІА	VOII	ALG	1800		GIII	7 7 7 7	V CL.	1805		71312	110
	3905	Cvs	Val	Glu		Len	Va l	Thr			Ser	Pro	Cvs			Lvs	Asn
	3906	O J D	1810		0.20			1815					1820		2	-1-	
	3907	Ala		Ile	Lys	Leu	Ser			Asn	Ser	Asn	Asn	Phe	Glu	Val	Gly
E>	3908	1825					1830					1835					184
	3909	Pro	Pro	Ala	Phe	Arg	Ile	Ala	Ser	Gly	Lys	Ile	Val	Cys	Val	Ser	His
	3910					1845					1850					1855	
	3911	Glu	Thr	Ile			Val	Lys	Asp			Thr	Asp	Ser			Lys
	3912				1860					1865					1870		_
	3913	Val	Ile	Lys		Asn	Asn	Glu		_	Ser	Lys	Ile	_		Thr:	Lys
	3914	T 1	1.4 · ±	1875		<b>C</b>	m	C11-	1880		70	7)	C	1885		T1~	T 0.11
	3915	тте		Ala	GTA	Cys	Tyr			ьeu	Asp	Asp			ASP	тте	теп
	3916		1890	J				1895	)				1900	)			

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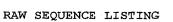
Input Set : A:\G150581u.txt

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	3917			Ser	Leu	Asp		-	Glu	Cys	Ser			Ser	His	Lys	Val
E>		1905					1910					1915					192
	3919	Phe	Ala	Asp	Ile		Ser	Glu	Glu	Ile			His	Asn	Gln		
	3920	_		_		1925		_			1930		_			1935	
	3921	Ser	Gly	Leu			Val	Ser	Lys			Pro	Cys	Asp			Leu
	3922				1940					1945	-				1950		
	3923	Glu	Thr			Ile	Cys	Lys	-		Ile	Gly	Lys			Lys	Ser
	3924		_	1955		_			1960					1965			
	3925	Val			Ala	Asn	Thr			Ile	Phe	Ser			Ser	Gly	Lys
	3926		1970		_			1975				_	1980				
	3927			Gln	Val	Ser	Asp		Ser	Leu	Gln			Arg	GIn	Val	
E>		1985			_	_	1990		_			1995		_		_	200
	3929	Ser	Glu	Ile	GLu		Ser	Thr	Lys	GIn			Ser	Lys	Val		
	3930	_	_	_		2005				_	2010			- 2	_	2015	
	3931	Lys	Ser	Asn			Ser	Asp	Gln			Arg	GLu	GLu			Ala
	3932		_		2020			_		2025		-	~ ?		2030		-
	3933	Ile	Arg			GLu	His				GIn	Lys	GTA			Tyr	Asn
	3934			2035		~			2040		73.1		m1	2045		a <b>1</b>	т
	3935	Val			Ser	Ser	Ala			GLY	Pne	ser			ser	GTA	түѕ
	3936	<b>0.7</b>	2050		~ 1 -	T	0.1	2055		т	T7.5	T	2060		C3	77 - 7	T
	3937			Ser	тте	Leu	Glu		Ser	Leu	HlS			гàг	GTÀ	vaı	
E>		2065		TD1	70	т	2070		m1	<i>α</i> 1	11.1	2075	- 1	TT : ~		C - 11	208
	3939 3940	GLU	GLU	Pue	Asp	2085	Ile	Arg	Tur	GIU	2090		теп	нтг	TÀT	2095	
		mb m	C 0 20	71 20 00	Cln		, Val	Cor	Tvo	Tla			nra	Va 1	7) cn		
	3941 3942	TIIT	ser	AIG	2100		Val	Set	гуу	2105		LIO	ALG	va.L	211(		AIG
	3943	Aen	Dro	Glu			Val	Δen	Ser			Glu	T.379	Thr			Lus
	3944	ASII	110	2115		Cys			2120		1100	Ola	пур	2125		DCI	LIYO
	3945	Glu	Pha			Ser	Asn				Val	Glu	G1 v			Ser	G] 11
	3946	OIU	2130	-	1100	DOL	21011	2135		11011	Val	O L G	2140		001		010
	3947	Asn			Ser	Tle	Lys			Pro	Tur	Len			Phe	Gln	Gln
E>		2145		1110	001	110	2150		501	1.120	- 1	2155		0			216
	3949			Gln	Gln	Leu	Val		Glv	Thr	Lvs			Leu	Val	Glu	
	3950	I	2			2165			4		2170					2175	
	3951	Ile	His	Val	Leu	Gly	Lys	Glu	Gln	Ala	Ser	Pro	Lys	Asn	Val	Lys	Met
	3952				2180		-			2185			-		2190		
	3953	Glu	Ile	Gly	Lys	Thr	Glu	Thr	Phe	Ser	Asp	Val	Pro	Val	Lys	Thr	Asn
	3954			2195					2200					2205			
	3955	Ile	Glu	Val	Cys	Ser	Thr	Tyr	Ser	Lys	Asp	Ser	Glu	Asn	Tyr	Phe	Glu
	3956		2210	)				2215	5				2220	)			
	3957	Thr	Glu	Ala	Val	Glu	Ile	Ala	Lys	Ala	Phe	Met	Glu	Asp	Asp	Glu	Leu
E>	3958	2225	5				2230	)				2235	5				224
	3959	Thr	Asp	Ser	Lys	Leu	Pro	Ser	His	Ala	Thr	His	Ser	Leu	Phe		
	3960					2245	5				2250	)				2255	<u> </u>
	3961	Pro	Glu	Asn	Glu	Glu	Met	Val	Leu			Ser	Arg	Ile			Arg
	3962				2260					2265					2270		
	3963	Arg	Gly			Leu	Ile	Leu			Glu	Pro	Ser			Arg	Asn
	3964			2275			_		2280		_			2285		_	_
	3965	Leu	Leu	Asn	Glu	Phe	Asp	Arg	Ile	Ile	Glu	Asn	Gln	Glu	Lys	Ser	Leu

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	3966		2290	)				2295	õ				2300	)			
	3967	Lys	Ala	Ser	Lys	Ser	Thr	Pro	Asp	Gly	Thr	Ile	Lys	Asp	Arg	Arq	Leu
E>	3968	2305					2310			_		2315			_	-	232
	3969	Phe	Met	His	His	Val	Ser	Leu	Glu	Pro	Ile	Thr	Cys	Val	Pro	Phe	Arg
	3970					2325					2330					2335	
	3971	Thr	Thr	Lys	Glu	Arg	Gln	Glu	I1e	Gln	Asn	Pro	Asn	Phe	Thr	Ala	Pro
	3972				2340					2345					2350		
	3973	Gly	Gln	Glu	Phe	Leu	Ser	Lys	Ser	His	Leu	Tyr	Glu	His	Leu	Thr	Leu
	3974			2355					2360					2365			
	3975	Glu		Ser	Ser	Ser	Asn			Val	Ser	Gly			Phe	Tyr	Gln
	3976		2370					2375					2380				
	3977			Ala	Thr	Arg			Lys	Met	Arg			Ile	Thr	Thr	
E>		2385			_		2390		_	_	_,	2395		_			240
	3979	Arg	Pro	Thr	ГЛЗ			Val	Pro	Pro			'I'nr	Lys	Ser		
	3980	77.5	7)	77 - 7	01	2405		77 _ 7	7	70	2410		. <del>.</del>	C1	<b>a</b> 1	2415	
	3981	HIS	Arg	Val			Cys	vaı	Arg			Asn	ьеи	GLU			Arg
	3982 3983	Cln	Tira	Cln	2420		7) (2)	C1++	uio	2425		7) ara	7\ a.v.	Cor	2430		Tiro
	3984	GIII	ry	Gln 2435		TTE	Asp	GLY	244(		ser	Asp	Asp	2445		ASII	туѕ
	3985	Tlo	Aen	Asp		Glu	T 1 🗖	Нiс			Aen	T.ve	Δen			Aen	Gln
	3986	T T.C	2450	•	11011	OLU	110	2455		1116	L'SII	пуз	2460		DCL	11011	GLII
	3987	Δla		Ala	Val	Thr	Phe			Cvs	G1 11	Glu			T.eu	Asn	T.em
E>		2465		1110	v Call	1111	2470		Lyo	Oys	OT G	2475			Dou	1101	248
	3989			Ser	Leu	Gln			Ara	Asp	Ile			Met	Ara	Ile	
	3990					2485				- 1	2490		1		,	2495	
	3991	Lys	Lys	Gln	Arg	Gln	Arg	Val	Phe	Pro			Gly	Ser	Leu	Tyr	Leu
	3992				2500	) "				2505	;				2510	)	
	3993	Ala	Lys	Thr	Ser	Thr	Leu	Pro	_		Ser	Leu	Lys			Val	Gly
	3994			2515					2520					2525			
	3995	Gly		Val	Pro	Ser	Ala			His	Lys	Gln			Thr	Tyr	Gly
	3996		2530			~		2535			~		2540			~	
	3997			Lys	His	Cys		-	Ile	Asn	Ser			Ala	GLu	Ser	
E>		2545		TT 2	m1	C1	2550		Dla -	C1	T	2555		т	m	m1	256
	3999 4000	GTU	Pne	His	Thr	2565		тук	Pne	стА	ьуs 2570		ser	Leu	rrp	2575	
	4000	Tare	Clv	Ile	Cln			Acn	C1 v	Clv			Tlo	Dro	Sar		
	4001	шуз	дту	116	2580		ALA	voħ	СтУ	2585		пеа	116	EIO	2590		Asp
	4003	GIV	Lvs	Ala			Glu	Glu	Phe			Δla	Len	Cvs			Pro
	4004	ОТУ	Lyb	2595	_	.L.y.C	OLU	01.4	2600		1119	2314	1104	2605		****	110
	4005	Glv	Val	Asp		Lvs	Leu	Ile			Ile	Tro	Val			His	Tvr
	4006	- 1	2610	-		.1		2615					2620				
	4007	Arg	Trp	Ile	Ile	Trp	Lys	Leu	Ala	Ala	Met	Glu	Cys	Ala	Phe	Pro	Lys
E>	4008	2625	5			•	2630	)				2635	;				264
	4009	Glu	Phe	Ala	Asn	Arg	Cys	Leu	Ser	Pro	Glu	Arg	Val	Leu	Leu	Gln	Leu
	4010					2645	5				2650	)				2655	
	4011	Lys	Tyr	Arg	_		Thr	Glu	Ile		_	Ser	Arg	Arg			Ile
	4012				2660					2665					2670		
	4013	Lys	Lys	Ile		Glu	Arg	Asp	_		Ala	Ala	Lys			Val	Leu
	4014			2675	5				2680	)				2685	5		

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	4015 4016	Cys	Val 2690		Asp	Ile	Ile	Ser 2695		Ser	Ala	Asn	Ile 2700		Glu	Thr	Ser
E>	4017 <b>4018</b>	Ser <b>270</b> !	Asn 5	Lys	Thr	Ser	Ser <b>271</b> 0		Asp	Thr	Gln	Lys <b>271</b> 9		Ala	Ile	Ile	Glu <b>272</b>
	4019 4020	Leu	Thr	Asp	Gly	Trp 2725		Ala	Val	Lys	Ala 2730		Leu	Asp	Pro	Pro 2735	
	4021 4022	Leu	Ala	Val	Leu 2740		Asn	Gly	Arg	Leu 2745		Val	Gly	Gln	Lys 2750		Ile
	4023 4024	Leu	His	Gly 2755	Ala		Leu	Val	Gly 2760	Ser		Asp	Ala	Cys 2765		Pro	Leu
	4025 4026	Glu	Ala 2770	Pro		Ser	Leu	Met 2775	Leu		Ile	Ser	Ala 2780	Asn		Thr	Arg
-	4027		Ala		Trp	Tyr		Lys			Phe		Pro		Pro	Arg	
E>	4028	2785	-	r		T	2790					2795		G1	7\ ~	1707	280
	4029		Pro			2805	5				2810	)				2815	5
	4031 4032		Val		2820	)				2825	5				2830	)	
	4033 4034		Thr	2835	5				2840	)				2845	5		
	4035 4036	Lys	Glu 2850		Ala	Lys	Tyr	Val 2855		Ala	Gln	Gln	Lys 2860		Leu	Glu	Ala
E>	4037 <b>4038</b>	Leu 2865	Phe 5	Thr	Lys		Gln 2870		Glu	Phe	Glu	Glu 2875		Glu	Glu	Asn	Thr 288
	4039 4040	Thr	Lys	Pro	Tyr	Leu 2885		Ser	Arg	Ala	Leu 2890		Arg	Gln	Gln	Val 2895	
	4041 4042	Ala	Leu	Gln	Asp 2900		Ala	Glu	Leu	Tyr 2905		Ala	Val		Asn 2910		Ala
	4043 4044	Asp	Pro	Ala 2915		Leu	Glu	Gly	Tyr 2920		Ser	Glu	Glu	Gln 2925		Arg	Ala
	4045 4046	Leu	Asn 2930		His	Arg	Gln	Met 2935		Asn	Asp		Lys 2940		Ala	Gln	Ile
E>	4047	Gln 2945	Leu	Glu	Ile	Arg	Lys 2950		Met	Glu	Ser	Ala <b>295</b> 5		Gln	Lys	Glu	Gln <b>296</b>
	4049 4050		Leu	Ser	Arg	Asp 2965	Val		Thr		Trp 2970		Leu	Arg	Ile	Val 2975	
	4051 4052	Tyr	Ser	Lys	Lys 2980		Lys	Asp	Ser	Val 2985		Leu	Ser	Ile	Trp 2990		Pro
	4053 4054	Ser	Ser	Asp 2995	Leu	-	Ser	Leu	Leu 3000	Thr		Gly	Lys	Arg 3005	Tyr		Ile
	4055 4056	Tyr	His 3010	Leu		Thr	Ser	Lys 3015	Ser		Ser	Lys	Ser 3020		Arg	Ala	Asn
E>	4057	Ile 302	Gln		Ala	Ala	Thr 3030	Lys		Thr	Gln	Tyr 3035	Gln		Leu	Pro	Val <b>304</b>
<b>"</b>	4059		Asp	G3 11	Tlo	T 11			T10	Tur	Gln			Glu	Pro	T.e.11	
	4060		Ser			3045	5				3050	)				3055	5
	4061				3060	)				3069	5				3070	)	
	4063	Asp	Leu	TTe	GLY	Phe	val	val	ser	val	val	ьys	гуѕ	1.111	σтХ	ьеи	Ald

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PATENT APPLICATION: US/09/084,471B

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4066 Pro Phe Val Tyr Leu Ser Asp Glu Cys Tyr Asn Leu Leu Ala Ile Lys 3090 3090 3095 3100 3105 3110 3115 3116 4066 4066 Ala Ala Ser Asn Leu Glu Tyr Arg Pro Glu Ser Lys Ser Gly Leu Leu 4070 3125 3130 3135 3130 3135 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 3135 3160 316		4064			3075	5				3080	)				3085	5		
4066   3090   3095   3100   4067   Phe Trp Tle Asp Leu Aen Glu Asp Ile Ile Lys Pro His Met Leu Ile Br-> 4068   3105   3110   3115   312   4069   Ala Ala Ser Asn Leu Gln Trp Arg Pro Glu Ser Lys Ser Gly Leu Leu 4070   3125   3130   3135   4071   Thr Leu Phe Ala Gly Asp Phe Ser Val Phe Ser Ala Ser Pro Lys Glu 4072   3140   3145   3165   4073   Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 3155   3160   3165   4075   Ile Asp Tle Leu Cys Asn Glu Ala Glu Asn Lys Leu Met His Ile Leu 4076   3170   3175   3180   3185   4077   His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser 4078   3185   3190   3195   320   4079   Gly Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 3220   3225   3230   4081   Met Ser Ser Pro Asn Cys Glu Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 3220   3225   3230   4082   Cys Met Ala Lys Arg Lys Ser Val Fer Thr Pro Val Ser Ala Gln Met 3235   3240   3245   4085   Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 4086   3250   3255   3260   4087   Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Arg Leu Pro Leu Pro 3205   3226   4088   3265   3270   3275   3286   4089   Pro Pro Val Ser Pro Ile Cys Thr Phe Val Ser Ala Ala Gln Lys 320   3295   4091   Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 3330   3295   4092   Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 3330   3305   3310   4094   3315   3286   3320   3325   3330   3325   4095   Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Leu Asp Ser Ala Leu Heu Ser Ala Gln Leu Asp Ser Lys Lys Glu Leu Asp Phe Leu Ser Ala Gln Lys 3300   3305   3310   4097   Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Phe 3330   3330   3335   3330   3335   3330   3335   3330   4097   Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Asp Lys Glu Leu Asp Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 3380   3380   3385   3390   4098   Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 3300   3305   3300   3305   3300   3305   3300   3305   3300			Pro	Phe	Val	Tyr	Leu	Ser	Asp			Tyr	Asn	Leu	Leu	Ala	Ile	Lvs
E> 4068		4066									_	_						-
4069 Ala Ala Ser Asn Leu Gln Trp Arg Pro Glu Ser Lys Ser Gly Leu Leu A070 4071 Thr Leu Phe Ala Gly Asp Phe Ser Val Phe Ser Ala Ser Pro Lys Glu 3130 4073 Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 3160 4074 3155 3160 3160 3165 4075 Ile Asp Ile Leu Cys Asn Glu Ala Glu Asn Lys Leu Met His Ile Leu 4076 3170 3175 3180 4077 His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser 3190 3195 320 4078 3185 3190 3195 320 4079 Gly Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 4080 3205 3210 3215 4081 Met Ser Ser Pro Asn Cys Glu Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 4080 3220 3220 3225 3230 3235 4083 Cys Met Ala Lys Arg Lys Ser Val Ser Thr Pro Val Ser Ala Gln Met 3235 3240 3255 3260 4085 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 3250 3255 3260 4086 4087 Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Arg Leu Pro Leu Pro 3255 3260 4089 Pro Pro Val Ser Pro Ile Cys Thr Phe Val Ser Pro Ala Ala Gln Lys 4090 3285 3285 3290 3295 4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 3300 3205 3295 4093 Lys Lys Lys Glu Leu Asn Ser Pro Gln Met Thr Pro Phe Lys Lys Phe 3315 3320 3325 4094 And 3315 3320 3355 3360 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Ala Ala Glu Lys 4094 3315 3320 3355 3350 3350 4097 Ala Leu Ile Asn Thr Gla Leu Leu Ser Gly Ser Thr Gly Glu Lys Ala Ala Glu Lys 3360 3385 3390 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Ala Ala Glu Lys 3380 3385 3390 4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 3360 3380 3385 3390 4103 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Grys Thr Thr Ser Leu Ile Lys 3380 3380 3380 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 3380 4103 Glu Gln Asp Thr Ile Trh Lys Lys Lys Lys Lys Lys Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3380 4103 Glu Gln Asp Thr Ile Trh Lys Lys Tyr Ile 3410 4106 3415		4067	Phe	Trp	Ile	Asp	Leu	Asn	Glu	Asp	Ile	Ile	Lys	Pro	His	Met	Leu	Ile
4070 4071 Thr Leu Phe Ala Gly Asp Phe Ser Val Phe Ser Ala Ser Pro Lys Glu 3140 4072 3140 3145 4073 Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 4074 4075 4076 4077 11e Asp Tle Leu Cys Asn Glu Ala Glu Asn Lys Leu Met His Ile Leu 3170 4077 4077 4077 4077 His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser 3180 4079 61y Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 4080 4079 Gly Pro Tyr Thr Ala Gln Ile Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 4080 4081 4082 4083 4084 4085 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 4084 4086 4087 4087 4088 4088 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 4084 4086 4087 4087 Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Arg Leu Pro Leu Pro 4087 4088 4089 Fro Pro Val Ser Pro Ile Cys Thr Phe Val Ser Pro Ala Ala Gln Lys 4090 4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 4092 4093 4093 Lys Lys Lys Glu Leu Asn Ser Pro Gln Met Thr Pro Phe Lys Lys Phe 3315 4094 4095 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Leu 3330 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Phe 3315 4098 4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4094 4095 4096 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Phe 3315 4098 4099 610 Fhe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 410 610 Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3380 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys Ala Cul Lys Ala Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Sar 410 4096 610 Asp Thr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3380 4097 Ala Cul Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3380 4098 610 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 3380 4097 Ala Leu Ile Asn Thr Chr Thr Lys Lys Tyr Ile 3400 4096 4097 4098 4098 4099 4099 4099 4099 4090 4090	E>	4068	3105	วั				3110	)				3115	5				312
4071 Thr Leu Phe Ala Gly Asp Phe Ser Val Phe Ser Ala Ser Pro Lys Glu 3140 4072 Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 4074 4075 Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 4074 4076 3155 3160 4077 His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser Ser 708 4077 His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser 3190 4079 Gly Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 4080 4080 3205 3210 3225 4081 Met Ser Ser Pro Asn Cys Glu Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 4082 4082 3220 3225 4083 Cys Met Ala Lys Arg Lys Ser Val Ser Thr Pro Val Ser Ala Gln Met 4084 4085 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 3255 4086 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 3255 4087 Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Asp Leu Pro Leu Pro 8295 4088 3265 3270 3275 3280 4089 Pro Pro Val Ser Pro Ile Cys Thr Phe Val Ser Pro Ala Ala Gln Lys 3285 4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 3295 4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 3310 4093 Lys Lys Lys Glu Leu Asn Ser Pro Gln Met Thr Pro Phe Lys Lys Phe 3315 4094 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 4096 4095 Asn Glu, Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 3330 3335 3330		4069	Ala	Ala	Ser	Asn	Leu	Gln	Trp	Arg	Pro	Glu	Ser	Lys	Ser	Gly	Leu	Leu
4072		4070					3125	5				3130	)				3135	5
4073 Gly His Phe Gln Glu Thr Phe Asn Lys Met Lys Asn Thr Val Glu Asn 4074 4074 3155 3160 3165 4075 Ile Asp Ile Leu Cys Asn Glu Ala Glu Asn Lys Leu Met His Ile Leu 4076 4077 His Ala Asn Asp Pro Lys Trp Ser Thr Pro Thr Lys Asp Cys Thr Ser 3190 4078 3185 3190 3195 320 4079 Gly Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 4080 4080 3205 3210 3215 4081 Met Ser Pro Asn Cys Glu Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 4082 4082 3220 3225 3230 4083 Cys Met Ala Lys Arg Lys Ser Val Ser Thr Pro Val Ser Ala Gln Met 4084 4084 3235 3240 3225 4085 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 3256 4086 3250 3250 3260 4087 Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Arg Leu Pro Leu Pro 4086 3265 3270 3270 4089 Pro Pro Val Ser Pro Ile Cys Thr Phe Val Ser Pro Ala Ala Gln Met 4084 4090 3285 3290 3295 4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 4092 3300 3305 3310 4093 Lys Lys Lys Glu Leu Asn Ser Pro Gln Met Thr Pro Phe Lys Lys Phe 4094 3315 3320 3325 4094 Ash Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Leu 4096 3330 3335 3310 4095 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 3315 3320 3355 3360 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys 3365 3370 3375 4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3365 3370 3375 4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 3395 3400 3395 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11:			Thr	Leu	Phe	Ala	Gly	Asp	Phe	Ser			Ser	Ala	Ser	Pro	Lys	Glu
4074																		
4075			Gly	His	Phe	Gln	Glu	Thr	Phe			Met	Lys	Asn			Glu	Asn
4076   3170   3175   3180   3195   3195   320   320   4079   4078   3180   3190   3195   320   320   4079   619   Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu Augo   320   320   3225   3230																		
## A			Ile	~		Leu	Cys	Asn			Glu	Asn	Lys			His	Ile	Leu
## 1975   1976   1976   1977   1977   1977   1978   210   210   210   215   21			•			_	_	_				_	_,					_
4079 GLY Pro Tyr Thr Ala Gln Ile Ile Pro Gly Thr Gly Asn Lys Leu Leu 4080					Asn	_		-	-	Ser	Thr	Pro			Asp	Cys	Thr	
4080	E>				m					T 1 -	D	<b>a</b> a			70	7	т	
4081 Met Ser Ser Pro Asn Cys Glu Ile Tyr Tyr Gln Ser Pro Leu Ser Leu 4082 3220 3225 3230 3230 3230 4083 Cys Met Ala Lys Arg Lys Ser Val Ser Thr Pro Val Ser Ala Gln Met 4084 3235 3240 3240 3245 3245 4085 Thr Ser Lys Ser Cys Lys Gly Glu Lys Glu Ile Asp Asp Gln Lys Asn 4086 3250 3255 3260 3265 3260 3265 3260 3255 3260 3265 3260			GTA	Pro	ryr	rnr			тте	тте	Pro			СТА	ASII	ьуs		
4082			Mot	Cor	Cor	Dro			Clu	T10	m			Cor	Dro	T 011		
4083			Met	per	Ser			Cys	GIU	тте			GTII	per	FLO			пец
4084			Cvs	Mot	ΔΊа			T.vc	Ser	Val			Pro	Va1	Ser			Me+
4085			Cys	1100		-	111.9	T Y O	001			1111	110	v ca i			321	1.10 C
4086			Thr	Ser			Cvs	Lvs	Glv			Glu	Ile	Asp			Lvs	Asn
## A087   Cys Lys Lys Arg Arg Ala Leu Asp Phe Leu Ser Arg Leu Pro Leu Pro Leu Pro 4088   3265   3270   3275   3288   3290   3295   3290   3295   3295   3290   3295   3295   3290   3295   3295   3290   3295   3295   3295   3290   3295						10 0 11	910	110			-10						-1-	
## Add ##			Cvs			Ara	Ara	Ala	Leu	Asp	Phe	Leu	Ser			Pro	Leu	Pro
4090	E>		_	-	.4	د				-				_				
4091 Ala Phe Gln Pro Pro Arg Ser Cys Gly Thr Lys Tyr Glu Thr Pro Ile 4092 3300 3305 3310  4093 Lys Lys Lys Glu Leu Asn Ser Pro Gln Met Thr Pro Phe Lys Lys Phe 4094 3315 3320 3325  4095 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 4096 3330 3335 3340  4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys  E> 4098 3345 3355 3365  4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4100 3380 3385 3385  4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3385  4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3380 3385  4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415  4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids		4089	Pro	Pro	Val	Ser	Pro	Ile	Суѕ	Thr	Phe	Val	Ser	Pro	Ala	Ala	Gln	Lys
4092		4090					3285	5				3290	)				3295	,
A093		4091	Ala	Phe	Gln	Pro	Pro	Arg	Ser	Cys	Gly	Thr	Lys	Tyr	Glu	Thr	Pro	Ile
4094 3315 3320 3325 4095 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 4096 3330 3335 3340 3340 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys 4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4100 3365 3370 3375 3375 4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3415 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids																		
4095 Asn Glu Ile Ser Leu Leu Glu Ser Asn Ser Ile Ala Asp Glu Glu Leu 4096 3330 335 335 3340 3340 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys 4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4100 3365 3370 3375 3375 4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405 3415 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			Lys	Lys	_		Leu	Asn	Ser			Met	Thr	Pro			Lys	Phe
4096 3330 3335 3340 4097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys  E> 4098 3345 3350 3355 3355 3365  4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4100 3365 3370 3375  4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390  4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405  4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415  4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			_				_	_	~ 7								~ 1	_
## A097 Ala Leu Ile Asn Thr Gln Ala Leu Leu Ser Gly Ser Thr Gly Glu Lys ### A098 A345			Asn			Ser	Leu	Leu			Asn	Ser	TTe		-	G⊥u	GLu	Leu
## A 1998   3345   3350   3355   336   336   3375   336   3375			70 71			, 70	m1	C1			T	0	C1			C1	C1	T 47.0
4099 Gln Phe Ile Ser Val Ser Glu Ser Thr Arg Thr Ala Pro Thr Ser Ser 4100 3365 3370 3375 4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids	17				тте	ASII	THE			ьeu	ьеи	ser			1111	σту	GIU	
4100 3365 3370 3375  4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390  4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405  4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415  4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids	E>				Tla	Sor	Wal			Sar	Thr	Δrα			Pro	Thr	Sar	
4101 Glu Asp Tyr Leu Arg Leu Lys Arg Arg Cys Thr Thr Ser Leu Ile Lys 4102 3380 3385 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			GIII	1116	176	ńer			OLU	DET	TIIL			11.L. CI	110	TIIL		
4102 3380 3385 3390 4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			Glu	Asn	Tur	Len			Lvs	Ara	Ara			Thr	Ser	Len		
4103 Glu Gln Glu Ser Ser Gln Ala Ser Thr Glu Glu Cys Glu Lys Asn Lys 4104 3395 3400 3405 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			0.1.0	1100	. y -		_	1100	-10	1119		-			001			1-
4104 3395 3400 3405 4105 Gln Asp Thr Ile Thr Thr Lys Lys Tyr Ile 4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids			Glu	Gln	G1u			Gln	Ala	Ser			Glu	Cvs	Glu			Lys
4106 3410 3415 4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids														-				_
4990 (2) INFORMATION FOR SEQ ID NO: 11: 4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids		4105	Gln	Asp	Thr	Ile	Thr	Thr	Lys	Lys	Tyr	Ile						
4992 (i) SEQUENCE CHARACTERISTICS: 4993 (A) LENGTH: 3418 amino acids		4106		3410	)				3415	j								
4993 (A) LENGTH: 3418 amino acids		4990	(2)	NFOE	RMAT]	ON E	OR S	SEQ I	D NC	: 11	. :							
				(i)														
4994 (B) TYPE: amino acid 4995 (C) STRANDEDNESS: single 4996 (D) TOPOLOGY: linear																		
4995 (C) STRANDEDNESS: single 4996 (D) TOPOLOGY: linear					, ,										$\bigcirc$			
4996 (D) TOPOLOGY: linear											_e			, (	$\mathcal{L}'I$			
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4998		(ii)														
4999		(V)		GMEN'					70 T	5 270	11					
5001		(xi)											G 7	T 1 -	T) l	<b>,</b>
5003 5004		Pro	тте	GTÄ		гдг	GLU	Arg	Pro		Pne	Pne	GLU	тте		гла
5004	1	7 ~	C	70	5	7\ 1	7\	T	C1	10	71-	G	τ	7	15	D)
5005	TUL	Arg	CAR	20	гЛЗ	Ald	ASP	ьеи	25 25	Pro	TTG	ser	ьеи		тр	FIIE
	C1	C1	T 017		0.00	Clas	7. 7	Deco	-	m	7/ - 10	C 0.10	C1	30	7.1.	C 1
5007 5008	GIU	Glu		ser	ser	Gru	ALA		Pro	Tyr	ASII	ser		FLO	Ald	GIU
	G1	0	35	17.2 _	T	71 20	7\ ~~~	40	M	<b>a</b> 1	D	7)	45	Db =	τ	III o
5009	GIU	Ser 50	GIU	пта	пуѕ	ASII	55	ASII	тАт	GIU	PIO	60	теп	rne	ьуѕ	1111
5010 5011	Dage		7) ~-	T	Dago	Con		71.00	C1 x	Т ол-	70.7 ==		m lo se	Dage	т1.	T1.0
		Gln	ALG	гуз	PIO	70	т Ат	ASII	GIII	ьeu		ser	TILL	PLO	тте	
5012	65	T	C1	C1.	c1		mb	T 0.11	Dano	Т	75	~1 m	0 = 22	Die	77-7	80
5013 5014	Pne	Lys	GLU	GIII	85	Lieu	1111	цец	Pro		T.ÀT.	GIII	ser	PIO		гуѕ
	C1	T 011	71 0 22	T ***		T	Tour	7\ 0.20	T 0.17	90	7) == ~	7\ ~~	7707	Dwo	95	Com
5015 5016	GIU	Leu	ASD	100	rne	цуѕ	ьeu	Asp	105	СΤУ	Arg	ASII	Val	110	ASII	ser
5017	7\ 20 00	шіа	Τ 17.0		T 011	71 200	Th.≻	77.7		mh s	T ++G	Mot	7 an		7. 7. 5	7\ 0.20
5018	ALG	His	цуS 115	ser	neu	ALG	TIIL	120	цуб	TIIT	тур	Met	125	GIII	Ala	Asp
5019	7) an	Val		Cuc	Dro	Lou	Tou		Sor	Czza	T 011	Cor		Sor	Dro	77-7
5020	ASP	130	per	Cys	FIO	цец	135	ASII	Ser	СУЗ	шец	140	Gru	Det	F 1. O	val
5020	Wal.	Leu	Cln	Cvc	Thr	шic		Thr	Dro	Gln	Λνα		Tare	Sar	V-1	17al
5021	145	пеи	GTII	Суз	TIIT	150	vaı	1111	LIU	GTII	155	rah	пур	Der	Val	160
5023		Gly	Sar	Ι.Δ11	Pho		Thr	Pro	T.vc	Phe		T.Ve	Glv	Ara	Gln	
5023	СуЗ	OT Y	DCI	шеи	165	1113	4.11.1.	110	T) Y D	170	v a .i.	цуs	OT Y	1119	175	T11T
5025	Pro	Lys	His	Tla		Glu	Ser	T.e.11	Glv		Glu	Val	Asn	Pro		Met
5026	110	my D	11110	180	DOL	01.0	001	no a	185	21	014	V CA 1	110 P	190	1101	1100
5027	Ser	Trp	Ser		Ser	Leu	Ala	Thr		Pro	Thr	Len	Ser		Thr	Val
5028		1-	195					200					205			
5029	Leu	Ile		Ara	Asn	Glu	Glu		Ser	Glu	Thr	Val		Pro	His	Asp
5030		210		5			215					220				- L
5031	Thr	Thr	Ala	Asn	Val	Lys	Ser	Tyr	Phe	Ser	Asn	His	Asp	Glu	Ser	Leu
5032	225					230		-			235		-			240
5033	Lys	Lys	Asn	Asp	Arg	Phe	Ile	Ala	Ser	Val	Thr	Asp	Ser	Glu	Asn	Thr.
5034	-	-			245					250					255	
5035	Asn	Gln	Arg	Glu	Ala	Ala	Ser	His	Gly	Phe	Gly	Lys	Thr	Ser	Gly	Asn
5036			_	260					265					270		
5037	Ser	Phe	Lys	Val	Asn	Ser	Cys	Lys	Asp	His	Ile	Gly	Lys	Ser	Met	Pro
5038			275					280					285			
5039	Asn	Val	Leu	Glu	Asp	Glu	Val	Tyr	Glu	Thr	Val	Val	Asp	Thr	Ser	Glu
5040		290					295					300				
5041	Glu	Asp	Ser	Phe	Ser	Leu	Cys	Phe	Ser	Lys	Cys	Arg	Thr	Lys	Asn	Leu
5042	305					310					315					320
5043	Gln	Lys	Val	Arg	Thr	Ser	Lys	Thr	Arg	Lys	Lys	Ile	Phe	His	Glu	Ala
5044					325					330					335	
5045	Asn	Ala	Asp	Glu	Cys	Glu	Lys	Ser	Lys	Asn	Gln	Val	Lys	Glu	Lys	Tyr
5046				340					345					350		
5047	Ser	Phe		Ser	Glu	Val	Glu		Asn	Asp	Thr	Asp		Leu	Asp	Ser
5048			355					360					365			





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		_			_											
5049	Asn		Ala	His	Gln	Lys		Phe	Glu	Ser	Gly		Asp	Lys	Ile	Ser
5050		370					375					380			_	
5051		Glu	Val	Val	Pro		Leu	Ala	Cys	Glu	_	Ser	Gln	Leu	Thr	
5052	385					390					395				•	400
5053	Ser	Gly	Leu	Asn	_	Ala	Gln	Met	Glu		Ile	Pro	Leu	Leu		Ile
5054					405					410					415	
5055	Ser	Ser	Cys		Gln	Asn	Ile	Ser		Lys	Asp	Leu	Leu		Thr	Glu
5056				420					425					430		
5057	Asn	Lys	Arg	Lys	Lys	Asp	Phe		Thr	Ser	Glu	Asn		Leu	Pro	Arg
5058			435					440					445			
5059	Ile		Ser	Leu	Pro	Lys		Glu	Lys	Pro	Leu		Glu	Glu	Thr	Val
5060		450					455					460				
5061	Val	Asn	Lys	Arg	Asp		Glu	Gln	His	Leu		Ser	His	Thr	Asp	
5062	465					470					475					480
5063	Ile	Leu	Ala	Val		Gln	Ala	Ile	Ser		Thr	Ser	Pro	Val		Ser
5064					485					490					495	
5065	Ser	Phe	Gln	Gly	Ile	Lys	Lys	Ser	Ile	Phe	Arg	Ile	Arg	Glu	Ser	Pro
5066				500					505					510		
5067	Lys	Glu	Thr	Phe	Asn	Ala	Ser		Ser	Gly	${ t His}$	Met		Asp	Pro	Asn
5068			515					520					525			
5069	Phe	Lys	Lys	Glu	Thr	Glu	Ala	Ser	Glu	Ser	Gly	Leu	Glu	Ile	His	Thr
5070		530					535					540				
5071	Val	Cys	Ser	Gln	Lys		Asp	Ser	Leu	Cys		Asn	Leu	Ile	Asp	
5072	545					550					555					560
5073	Gly	Ser	Trp	Pro	Ala	Thr	Thr	Thr	Gln		Ser	Val	Ala	Leu	Lys	Asn
5074					565					570					575	
5075	Ala	Gly	Leu	Ile	Ser	Thr	Leu	Lys	Lys	Lys	Thr	Asn	Lys		Ile	Tyr
5076				580					585					590		
5077	Ala	Ile	His	Asp	Glu	Thr	Ser	Tyr	Lys	Gly	Lys	Lys	Ile	Pro	Lys	Asp
5078			595					600					605			
5079	Gln	Lys	Ser	Glu	Leu	Ile	Asn	Cys	Ser	Ala	Gln	Phe	Glu	Ala	Asn	Ala
5080		610					615					620				
5081	Phe	Glu	Ala	Pro	Leu	Thr	Phe	Ala	Asn	Ala		Ser	Gly	Leu	Leu	
5082	625					63,0					635					640
5083	Ser	Ser	Val	Lys	Arg	Ser	Cys	Ser	Gln	Asn	Asp	Ser	Glu	Glu	Pro	Thr
5084					645					650					655	
5085	Leu	Ser	Leu	Thr	Ser	Ser	Phe	Gly	Thr	Ile	Leu	Arg	Lys		Ser	Arg
5086	*			660					665					670		
5087	Asn	Glu	Thr	Cys	Ser	Asn	Asn		Val	Ile	Ser	Gln		Leu	Asp	Tyr
5088			675					680					685			
5089	Lys	Glu	Ala	Lys	Cys	Asn		Glu	Lys	Leu	Gln		Phe	Ile	Thr	Pro
5090		690					695					700				
5091		Ala	Asp	Ser	Leu		Cys	Leu	Gln	Glu		Gln	Cys	Glu	Asn	
5092	705					710					715					720
5093	Pro	Lys	Ser	Lys		Val	Ser	Asp	Ile		Glu	Glu	Val	Leu		Ala
5094					725					730					735	
5095	Ala	Cys	His	Pro	Val	Gln	His	Ser		Val	Glu	Tyr	Ser		Thr	Asp
5096				740					745					750		
5097	Phe	Gln	Ser	Gln	Lys	Ser	Leu	Leu	Tyr	Asp	His	Glu	Asn	Ala	Ser	Thr



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	5098			755					760					765				
	5099	Leu	Ile	Leu	Thr	Pro	Thr	Ser		Asp	Val	Leu	Ser		Leu	Val	Met	
	5100		770					775	2				780					
	5101	Ile	Ser	Arq	Gly	Lys	Glu	Ser	Tvr	Lvs	Met	Ser	Asp	Lvs	Leu	Lvs	Glv	
	5102	785			1	2	790		- 1 -	2		795	. L	- 2		2	800	
	5103		Asn	Tvr	Glu	Ser		Val	Glu	Leu	Thr		Asn	Il.e	Pro	Met		
	5104			- 1 -		805	F-		-		810					815		
	5105	Lvs	Asn	Gln	Asp		Cvs	Ala	Len	Asn			Tyr	Lys	Asn		G] 11	
	5106	2.1.2		02.11	820		010		110 C	825	014	11011	- 1	270	830	, 4,1	014	
	5107	Leu	Leu	Pro	Pro	Glu	Lvs	Tyr	Met		Va 1	Ala	Ser	Pro		Ara	Lvs	
	5108			835	2 - 0	02.0	-10	- 1 -	840	9				845	~ ~ ~	9	-1-	
	5109	Val	Gln		Asn	Gln	Asn	Thr		Len	Ara	Val	Tle		Ĺvs	Asn	Gln	
	5110		850			0111		855	- 10 - 1		*** 9		860	022	_10		0.2.1	
	5111	Glu		Thr	Thr	Ser	Tle		Lvs	Tle	Thr	Val		Pro	Asp	Ser	Glu	
	5112	865	0.0				870					875			1-		880	
	5113		Len	Phe	Ser	Asp		Glu	Asn	Asn	Phe		Phe	Gln	Val	Ala		
	5114	0 - 0			~~_	885		•	-1011		890					895		
	5115	Glu	Ara	Asn	Asn		Ala	Len	Glv	Asn		Lvs	G111	Leu	His		Thr	
	5116	0 <u></u> u	**** 9		900	200	1120	2000	- J. J	905		2.1.			910			
	5117	Asn	Len	Thr	Cys	Val	Asn	G1 11	Pro		Phe	Lvs	Asn	Ser		Met	Val	
	5118	1100	<b>1</b> 00	915	O y S	val	11011	010	920			1170	111311	925			,	
	5119	Leu	$T_{VY}$		Asp	Thr	Glv	Asp		Gln	Ala	Thr	Gln		Ser	Tle	Lvs	
	5120	200	930	0.2.7	2101		U-1	935					940					
	5121	Lvs		Leu	Val	Tvr	Val		Ala	Glu	Glu	Asn		Asn	Ser	Val	Lvs	
	5122	945				- 1 -	950					955	-1-				960	
	5123		His	Ile	Lys	Met	Thr	Leu	Glv	Gln	Asp	Leu	Lvs	Ser	Asp	Ile	Ser	
	5124					965			1		970		4		1	975		
	5125	Leu	Asn	Ile	Asp	Lvs	Ile	Pro	Glu	Lvs	Asn	Asn	Asp	Tvr	Met	Asn	Lys	
	5126				980					985			-	-	990		-	
	5127	Trp	Ala	Glv	Leu	Leu	Gly	Pro	Ile	Ser	Asn	His	Ser	Phe	Gly	Gly	Ser	
	5128	-		995			-		1000					1005		-		
	5129	Phe	Arg	Thr	Ala	Ser	Asn	Lys	Glu	Ile	Lys	Leu	Ser	Glu	His	Asn	Ile	
	5130		1010	)				1015	5		_		1020	)				
	5131	Lys	Lys	Ser	Lys	Met	Phe	Phe	Lys	Asp	Ile	Glu	Glu	Gln	Tyr	Pro	Thr	
E>	5132	1025	5				1030	)				1035	5			(	<b>164</b> )	1040
	5133	Ser	Leu	Ala	Cys	Val	Glu	Ile	Val	Asn	Thr	Leu	Ala	Leu	Asp	Asn	GIn	1 -
	5134					1045	ö				1050	С				1055	5	
	5135	Lys	Lys	Leu	Ser	Lys	Pro	Gln	Ser	Ile	Asn	Thr	Val	Ser	Ala	His	Leu	
	5136				1060	)				1065	5				1070	)		
	5137	Gln	Ser	Ser	Val	Val	Val	Ser			Lys	Asn	Ser	His	Ile	Thr	Pro	
	5138			1075					1080					1085				
	5139	Gln	Met	Leu	Phe										Asn	Leu	Thr	
	5140		1090					1095										
	5141	Pro	Ser	Gln	Lys	Ala			Thr	Glu	Leu	Ser	Thr	Ile	Leu	Glu	Glu	
E>	5142	1105					1110					1115					(112)/	120
	5143	Ser	Gly	Ser	Gln			Phe	Thr	Gln			Lys	Pro	Ser			
	5144					1125					1130					1135		
	5145	Leu	Gln	Lys	Ser		Phe	Glu	Val			Asn	Gln	Met			Leu	
	5146				114(	)				1145	5				1150	)		





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	5147 5148	Lys	Thr	Thr 1155		Glu	Glu	Cys	Arg 1160		Ala	Asp	Leu	His 1165		Ile	Met
	5149 5150	Asn	Ala 1170		Ser	Ile	Gly	Gln 1175		Asp	Ser	Ser	Lys 1180		Phe	Glu	Gly
E>	5151 <b>5152</b>	Thr 1185	Val	Glu	Ile	Lys	Arg		Phe	Ala	Gly	Leu 1195		Lys	Asn	Asp	Cys <b>120</b>
	5153 5154		Lys	Ser	Ala	Ser 1205	Gly		Leu	Thr	Asp	Glu		Glu	Val	Gly 1215	Phe
	5155 5156	Arg	Gly	Phe	Tyr 1220	Ser		His	Gly	Thr 1225	Lys		Asn	Val	Ser 1230	Thr	
	5157 5158	Ala	Leu	Gln 1235	_	Ala	Val	Lys	Leu 1240		Ser	Asp	Ile	Glu 1245		Ile	Ser
	5159 5160	Glu	Glu 1250	Thr		Ala	Glu	Val 1255	His		Ile	Ser	Leu 1260	Ser		Ser	Lys
E>	5161	Cys <b>126</b> 5	His		Ser	Val	Val <b>127</b> 0	Ser		Phe	Lys	Ile <b>127</b> 5	Glu		His	Asn	Asp <b>128</b>
	5163 5164		Thr	Val	Ser	Glu 1285	Lys		Asn	Lys	Cys 1290	Gln		Ile	Leu	Gln 1295	Asn
	5165 5166	Asn	Ile	Glu	Met 1300	Thr		Gly	Thr	Phe 1305	Val		Glu	Ile	Thr 1310	Glu	
	5167 5168	Tyr	Lys	Arg 1315	Asn		Glu	Asn	Glu 1320	Asp		Lys	Tyr	Thr 1325	Ala		Ser
	5169 5170	Arg	Asn 1330	Ser		Asn		Glu 1335	Phe		Gly	Ser	Asp 1340	Ser		Lys	Asn
E>	5171	Asp 1345	Thr	Val	Cys	Ile	His 1350		Asp	Glu	Thr	Asp 1355		Leu	Phe	Thr	Asp <b>136</b>
	5173 5174		His	Asn	Ile	Cys 1365		Lys	Leu	Ser	Gly 1370		Phe	Met	Lys	Glu 1375	
	5175 5176	Asn	Thr	Gln	Ile 1380	Lys		Asp	Leu	Ser 1385		Leu	Thr	Phe	Leu 1390		Val
	5177 5178	Ala	Lys	Ala 1395	Gln		Ala	Cys	His 1400	Gly		Thr	Ser	Asn 1405		Glu	Gln
		Leu	Thr 1410	Ala		Lys	Thr	Glu 1415		Asn	Ile	Lys	Asp 1420		Glu	Thr	Ser
E>	5181	Asp 1425	Thr		Phe	Gln	Thr 1430	Ala		Gly	Lýs	Asn <b>1435</b>	Ile		Val	Ala <sup>,</sup>	Lys <b>144</b>
	5183 5184		Ser	Phe	Asn	Lys 1445	Ile		Asn	Phe	Phe 1450		Gln	Lys	Pro	Glu 1455	
	5185 5186	Leu	His	Asn	Phe 1460		Leu	Asn	Ser	Glu 1465		His	Ser	Asp	Ile 1470		Lys
	5187 5188	Asn	Lys	Met 1475	~	Ile	Leu	Ser	Tyr 1480		Glu	Thr	Asp	Ile 1485		Lys	His
	5189 5190	Lys	Ile 1490			Glu		Val 1495		Val	Gly		Gly 1500		Gln	Leu	Val
E>	5191 <b>5192</b>	Thr 1505	Phe 5	Gln	Gly	Gln	Pro <b>1510</b>		Arg	Asp	Glu	Lys <b>1515</b>		Lys	Glu	Pro	Thr <b>152</b>
	5193 5194	Leu	Leu	Gly	Phe	His 1525		Ala	Ser	Gly	Lys 1530		Val	Lys	Ile	Ala 1535	
	5195	Glu	Ser	Leu	Asp			Lys	Asn	Leu	Phe	Asp	Glu	Lys	Glu	Gln	Gly





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	5196				1540	)				1545	5				1550	)	
	5197	Thr	Ser	Glu	Ile	Thr	Ser	Phe	Ser			Trp	Ala	Lys	Thr	Leu	Lys
	5198			1555					1560			-		1565			-4
	5199	Tyr	Arg	Glu	Ala	Cys	Lys	Asp	Leu	Glu	Leu	Ala	Cys	Glu	Thr	Ile	Glu
	5200	-	1570				.4	1575					1580				
	5201	Ile	Thr	Ala	Ala	Pro	Lys	Cys	Lys	Glu	Met	Gln	Asn	Ser	Leu	Asn	Asn
E>	5202	1585					1590					1595					160
	5203	Asp	Lys	Asn	Leu	Val	Ser	Ile	Glu	Thr	Val	Val	Pro	Pro	Lys	Leu	Leu
	5204					1605					1610					1615	
	5205	Ser	Asp	Asn	Leu	Cys	Arg	Gln	Thr	Glu	Asn	Leu	Lys	Thr	Ser	Lys	Ser
	5206				1620					1625					1630		
	5207	Ile	Phe	Leu	Lys	Val	Lys	Val	His	Glu	Asn	Val	Glu	Lys	Glu	Thr	Ala
	5208			1635					1640					1645			
	5209	Lys	Ser	Pro	Ala	Thr	Cys	-		Asn	Gln	Ser			Ser	Val	Ile
	5210		1650					1655					1660				
	5211			Ser	Ala	Leu	Ala		Tyr	Thr	Ser			Arg	Lys	Thr	
E>		1665					1670					1675			_		168
	5213	Val	Ser	Gln	Thr		Leu	Leu	Glu	Ala			Trp	Leu	Arg		
	5214			_		1685		- 1	-		1690			_		1695	
	5215	Ile	Phe	Asp			Pro	Glu	Arg			Thr	Ala	Asp			GТУ
	5216	70 .	m .	<b>-</b> .	1700		. 70	70	G	1705		m1	T1.	71 7 -	1710		7) - 2 > -
	5217	Asn	Tyr			GIU	Asn	Asn			ser	THY	тте	1725		ASII	ASP
	5218 5219	T	7.00	1715		Cor	Glu	Tirc	1720		Thr	Тиг	Tou			Sar	Sar
	5219	гу	1730		пец	Ser	Giu	1735		ASP	1117	т Ут	1740		LOII	per	Der
	5221	Mot			Sar	Туг	Ser			Ser	Asn	Glu			Asn	Asp	Ser
E>		1745		71311	DCI	т <b>у т</b>	1750	_	11110	DCI	2100	1755		+ y -	11011	TDP	176
<u> </u>	5223			Len	Ser	Lvs	Asn		Leu	Asp	Ser			Glu	Pro	Val	
	5224	011	- <u>y</u> -			176		-1~			1770					1775	
	5225	Lvs	Asn	Val	Glu		Gln	Lvs	Asn	Thr	Ser	Phe	Ser	Lys	Val	Ile	Ser
	5226	-1-			1780			<i>2</i>		1785					1790		
	5227	Asn	Val	Lys	Asp	Ala	Asn	Ala	Tyr	Pro	Gln	Thr	Val	Asn	Glu	Asp	Ile
	5228			1795					1800					1805			
	5229	Cys	Val	Glu	Glu	Leu	Val	Thr	Ser	Ser	Ser	Pro	Cys	Lys	Asn	Lys	Asn
	5230		1810					1815					1820				
	5231	Ala	Ala	Ile	Lys	Leu	Ser	Ile	Ser	Asn	Ser	Asn	Asn	Phe	Glu	Val	
E>	5232	1825					1830					1835					184
	5233	Pro	Pro	Ala	Phe		Ile	Ala	Ser	Gly			Val	Cys	Val		
	5234					1845	_				1850		_	_		1855	
	5235	Glu	Thr	Ile	_	_	Val	Lys				Thr	Asp	Ser			Lys
	5236			_	1860		_	~ 1		1865		-	~ 1	~	1870		Ψ
	5237	Val	Ile	_		Asn	Asn	GLu		_	Ser	Lуs	TTe			rnr	rÀs
	5238			1875		<b>a</b> -	m	C1	1880		71	7\	0	1885		т1 ~	Tour
	5239	тте			GTÀ	Cys	Tyr			ьеи	Asp	Asp	1900	oru.	Asp	тте	ьeu
	5240	111.	1890		T	7) ~~~	7) ~~	1895		Crrc	Co~	ሞሎም			ніс	Tvo	[7.57]
E>	5241			ser	ьeu	ASP	Asn 1 <b>91</b> 0	_	GTU	CAR	oet.	1915		26T	птъ	туз	192
Ľ>	5243	1909		Aen	Tle	Gln	Ser		Gla	Tle	Len			Asn	Gln	Asp	
	5243	FILE	ALA	ush	7.T.G	1925		o <u>r</u> u	JLU	110	1930		1140	11011	-4.11	193	
	0244					172	_				100	-					-





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	5245 5246	Ser	Gly	Leu	Glu 1940		Val	Ser	Lys	Ile 1945		Pro	Cys	Asp	Val 1950		Leu
	5247	Glu	Thr		Asp		Cys	_	_	Ser		Gly	Lys		His		Ser
	5248 5249	Val	Ser	1955 Ser	Ala	Asn	Thr		1960 Gly		Phe	Ser	Thr	1965 Ala		Gly	Lys
	5250		1970	)				1975	5				1980	)			
E>	5251 <b>5252</b>	Ser 1985		Gln	Val	Ser	Asp 1990		Ser	Leu	Gln	Asn 1995		Arg	Gln	Val	Phe <b>200</b>
	5253 5254	Ser	Glu	Ile	Glu	Asp 2005		Thr	Lys	Gln	Val 2010		Ser	Lys	Val	Leu 2015	
	5255	Lys	Ser	Asn	Glu			Asp	Gln	Leu			Glu	Glu	Asn		
	5256	_			2020	) .		_		2025	5				2030	)	
	525 <b>7</b>	Ile	Arg		Pro	Glu	His	Leu			Gln	Lys	Gly			Tyr	Asn
,	5258			2035					2040		_,	_		2045		~ 3	_
	5259	Val			Ser	Ser				Gly	Phe	Ser			Ser	GTA	Lys
	5260 5261	C1 5	2050		Ile	T 011		2055		Tou	Hia	Tiro	2060		C1.,,	₹7 <b> 1</b>	T ON
E>		2065		ser	тте		2070		per	Leu	птг	ьуs 2075		пла	GTÀ	val	208
H/	5263			Phe	Asp				Thr	Glu	His			His	Tvr	Ser	
	5264		0.1.0		1100	2085		9			2090					2095	
	5265	Thr	Ser	Arg	Gln	Asn	Val	Ser	Lys	Ile	Leu	Pro	Arg	Val	Asp	Lys	Arg
	5266				2100					2105					2110		
	5267	Asn	Pro		His	_					Met	Glu	Lys			Ser	Lys
	5268			2115			_		2120			~ 2	~ 1	2125		~	G 3
	5269	GLu			Leu	Ser				Asn	Val		G1y 2140		Ser	Ser	GLu
	5270 5271	7\ an	2130		Ser	Tlo		2135		Dro	m trr				Pho	Gln	Gl n
E>		2145		птэ	per	тте	2150		SeT	FIO		2155		GLII	rne	GIII	216
ш /	5273			G1n	Gln	Leu			Glv	Thr				Leu	Val	Glu	
	5274	I-	-1-			2165			1		2170					2175	
	5275	Ile	His	Val	Leu	Gly	Lys	Glu	Gln	Ala	Ser	Pro	Lys	Asn	Val	Lys	Met
	5276				2180					2185					2190		
	5277	Glu	Ile		Lys	Thr	Glu	Thr			Asp	Val	Pro			Thr	Asn
	5278	т1_	C1	2195		0	mb	M	2200		7\~~	C 0.10	C1	2205		Dho	C1
	5279 5280	тте	2210		Cys	ser	T.U.T.	2215		гуѕ	ASP	Ser	2220		тук	FIIe	GIU
	5281	Thr			Val	Glu	Tle			Ala	Phe	Met			Asp	Glu	Leu
E>		2225		,11.L G		OLU	2230		110			2235		1101	1 [-		224
	5283			Ser	Lys	Leu			His	Ala	Thr	His	Ser	Leu	Phe	Thr	Cys
	5284		_		_	2245					2250					2255	
	5285	Pro	Glu	Asn	Glu		Met	Val	Leu			Ser	Arg	Ile			Arg
	5286				2260		_	_	-	2265			_		2270		
	5287	Arg	Gly		Pro	Leu	Ile	Leu			Glu	Pro	Ser			Arg	Asn
	5288	Lou	T 0	2275		Dhe	7\ ax	7~~	2280		C 7 12	7) arc	Clr	2285		Sor	T 011
	5289 5290	⊾eu	2290		Glu	rne	Asp	2295		тте	GIU	ASII	2300		пур	SET	шец
	5291	Lvs			Lys	Ser	Thr			Glv	Thr	Ile			Ara	Ara	Leu
E>		2305		~~~			2310		I	1		2315			3	9	232
	5293			His	His	Val			Glu	Pro	Ile	Thr	Cys	Val	Pro	Phe	Arg





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	5294					232	5				2330	)				233!	õ
	5295	Thr	Thr	Lys	Glu	Arg	Gln	Glu	Ile	Gln	Asn	Pro	Asn	Phe	Thr	Ala	Pro
	5296				2340					2345					2350		
	5297	Gly	Gln	Glu	Phe	Leu	Ser	Lys	Ser	His	Leu	Tyr	Glu	His	Leu	Thr	Leu
	5298			2355					2360					2365			
•	5299	Glu	Lys		Ser	Ser	Asn			Val	Ser	Gly			Phe	Tyr	Gln
	5300		2370		,		_	2375					2380				
	5301		Ser	Ala	Thr	Arg			Lys	Met	Arg			Ile	Thr	Thr	
E>		238		m) .	-	7	2390		<b>D</b>	Б	<b>D</b> 1	2395		<b>-</b>	~		240
	5303	Arg	Pro	Tur	гàг			Val	Pro	Pro			Thr	гàг	Ser		
	5304	77.	·n	T7 - 7	a l	2405		x z . 1	70	70	2410		T	<b>a</b> 1	<b>0.</b> 3	2415	
	5305	HIS	Arg	var			суѕ	val	Arg			Asn	Leu	GIU			Arg
	5306	C1	т	~1	2420		71	C1	112.	2425		7	7\	Q	2430		T
	5307 5308	GIII	Lys	2435		тте	Asp	GTÀ	H1S		ser	Asp	Asp	2445		ASII	гуѕ
	5309	T10	Asn			C1	T] 0	ц÷с			7. 00	T * * * *	7\ a.p.			7) an	Cln
	5310	110	2450	-	HSII	GIU	TIE	2455		rne	ASII	пЛэ	2460		per	ASII	GIII
	5311	Δla	Ala		Val	Thr	Phe			Cvs	Glu	Glu			T.em	Asn	T.eu
E>		2469		2110	val	1111	2470		шуо	CyD	OLG	2475		1 1.0	шеа	1100	248
	5313		Thr	Ser	Leu	Gln			Ara	Asp	Ile			Met	Ara	Ile	
	5314				200	2485			9	1101	2490				9	2495	
	5315	Lvs	Lys	Gln	Ara			Val	Phe	Pro			Glv	Ser	Leu		
	5316		-1-	-	2500		5			2505					2510		
	5317	Ala	Lys	Thr	Ser	Thr	Leu	Pro	Arg	Ile	Ser	Leu	Lys	Ala	Ala	Val	Gly
	5318		-	2515					2520				-	2525			
	5319	Gly	Gln	Val	Pro	Ser	Ala	Cys	Ser	His	Lys	Gln	Leu	Tyr	Thr	Tyr	Gly
	5320		2530	)				2535	5				2540	)			
	5321	Val	Ser	Lys	His	Cys	Ile	Lys	Ile	Asn	Ser	Lys	Asn	Ala	Glu	Ser	Phe
E>	5322	2545					2550					2555					256
	5323	Gln	Phe	${ t His}$	Thr			Tyr	Phe	Gly			Ser	Leu	Trp		
	5324					2565					2570					2575	
	5325	Lys	Gly	Ile			Ala	Asp	Gly			Leu	Ile	Pro			Asp
	5326	G1.	T .	75.7	2580		a)	<b>~</b> 1	TD1 -	2585		70 T -	т.	<b>C</b>	2590		D
	5327 5328	GTA	Lys	A1a 259!		гÀг	GIU	GIU	2600		Arg	Ala	Leu	2605		Thr	Pro
	5329	C1.,	Val			Two	Tou	Tlo			Tlo	Trn	17 - 1			Цia	ጥ፣ረድ
	5330	СТУ	2610		FIO	пуз	пец	2615		лтд	TTC	TIP	2620		HOII	11110	туг
	5331	Δνα	Trp		Tle	Trn	T.vc			Δla	Met	Glu			Phe	Pro	Lvs
E>		2625		110	110	111	2630		1 1.L CI	11 <u>1</u> 1	1100	2635			1110	11.0	264
- 1	5333		Phe	Ala	Asn	Ara			Ser	Pro	Glu			Leu	Leu	Gln	
	5334					2645					2650					2655	
	5335	Lys	Tyr	Arg	Tyr	Asp	Thr	Glu	Ile	Asp	Arg	Ser	Arq	Arq	Ser	Ala	Ile
	5336	-4	-	5	2660					2665			-	_	2670		
	5337	Lys	Lys	Ile	Met	Glu	Arg	Asp	Asp	Thr	Ala	Ala	Lys	Thr	Leu	Val	Leu
	5338			2675			-		2680				•	2685			
	5339	Суз	Val	Ser	Asp	Ile	Ile	Ser	Leu	Ser	Ala	Asn	Ile	Ser	Glu	Thr	Ser
	5340		2690					2695					2700				
	5341	Ser	Asn	Lys	Thr	Ser			Asp	Thr	Gln			Ala	Ile	Ile	
E>	5342	2705	5				2710	)				2715	5				272

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	5343 5344	Leu	Thr	Asp	Gly	Trp 2725		Ala	Val	Lys	Ala 2730		Leu	Asp	Pro	Pro 2735	
	5345	Leu	Ala	Val	Leu			Gly	Arg	Leu			Gly	Gln	Lys		
	5346 5347	T.e.11	Hie	Glv	274(		T.A11	Val	G1 v	2745 Ser		Aen	ΔΙα	Cue	2750		Len
	5348	пса	111.0	2755		O.L. C	шси	VAL	2760		110	215P	711.0	2765		1.1.0	пса
	5349 5350	Glu	Ala 2770		Glu	Ser	Leu	Met 2775		Lys	Ile	Ser	Ala 2780		Ser	Thr	Arg
	5351	Pro			Trp	Tyr		Lys		Gly	Phe		Pro		Pro	Arg	
E>	5352	2785		<b>T</b>	D	T	2790		T	<b>5</b> 1	G	2795			70	77.7	280
	5353 5354					2805	5			Phe	2810	)	_	_		2815	5
	5355 5356	Cys	Val	Asp	Val 2820		Ile	Gln	Arg	Ala 2825		Pro	Ile	Gln	Trp 2830		Glu
	5357	Lys	Thr	Ser			Leu	Tyr	Ile	Phe		Asn	Glu	Arg			Glu
	5358	-		2835				-	2840					2845			
	5359	Lys			Ala	Lys	Tyr			Ala	Gln	Gln		_	Leu	Glu	Ala
	5360 5361	т о	2850		Trva	Tlo	C15	2855		Dha	Cl.,	Clu	2860		C1	71 ~~ ~~	mb w
E>		ьец 2865		THE	тух	тте	2870		GIU	Phe	GIU	2875		GIU	GLU	ASII	288
	5363			Pro	Tyr	Leu			Arq	Ala	Leu			Gln	Gln	Val	
	5364				-	2885					2890		_			2895	_
	5365	Ala	Leu	Gln	-	_	Ala	Glu	Leu	Tyr		Ala	Val	Lys			Ala
	5366	70.		m 7	2900		<b>a</b> 3	C3		2905		a i	<b>a</b> 3	G1 -	2910		70.7 -
	5367 5368	Asp	Pro	2915		Leu	GIU	GTÀ	2920	Phe	ser	GIU	GIU	2925		Arg	Ala
	5369	Leu	Asn			Arq	Gln	Met		Asn	Asp	Lys	Lys			Gln	Ile
	5370	G1 -	2930		m 7 .	70	T	2935		G1		70.7 -	2940		T	<b>01</b>	C1
E>	5371 <b>5372</b>	2945		GLU	ire	Arg	ьуs <b>295</b> 0		мес	Glu	ser	2955		GTU	гуѕ	GLU	296
	5373	Gly	Leu	Ser	Arg	Asp	Val	Thr	Thr	Val	Trp	Lys	Leu	Arg	Ile	Val	Ser
	5374	_		_	_	2965		_	_		2970		_		_	2975	
	5375 5376	Tyr	Ser	Lys	Lys 2980		Lys	Asp	Ser	Val 2985		Leu	Ser	He	Trp 2990		Pro
	5377	Ser	Ser	Asp	Ĺeu	Tyr	Ser	Leu	Leu	Thr	Glu	Gly	Lys	Arg	Tyr	Arg	Ile
	5378			2995		em 1	<i>a</i>	*	3000		0	_	~	3005		m 7	TD .
	5379 5380	Tyr	H1S		Ala	Thr	Ser	ьуs 3015		Lys	Ser	гàг	3020		Arg	Ala	Asn
	5381	Tle			Ala	Ala	Thr			Thr	G.l n	Tvr			Leu	Pro	Val
E>		3025		шоа	11110	1110	3030	-		~ * * * * *	021	3035		0211			304
	5383	Ser	Asp	Glu	Ile	Leu	Phe	Gln	Ile	Tyr	Gln	Pro	Arg	Glu	Pro		
	5384		~	_		3045		_	_	51	3050		~	~	~	3055	
	5385 5386	Phe	Ser	Lys	Phe 3060		Asp	Pro	Asp	Phe 3065		Pro	Ser	Cys	Ser 3070		Val
	5387	Asp	Len	Tle			Val	Val	Ser	Val		Lvs	Lvs	Thr			Ala
	5388			3075			· · · ·		3080			~10	-10	3085			
	5389	Pro	Phe			Leu	Ser	Asp		Cys	Tyr	Asn	Leu	Leu	Ala	Ile	Lys
	5390		3090		_		_	3095		<b>-</b> 3	<i>-</i>	_	3100			-	
	5391	Phe	Trp	Ile	Asp	Leu	Asn	Glu	Asp	Ile	TTe	Lys	Pro	His	Met	Leu	TTE

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E>	5392	3105	5				3110	)				3115	5				312
	5393	Ala	Ala	Ser	Asn	Leu	Gln	Trp	Arg	Pro	Glu	Ser	Lys	Ser	Gly	Leu	Leu
	5394					3125	5				3130	)				3135	i
	5395	Thr	Leu	Phe	Ala	Glv	Asp	Phe	Ser	Val	Phe	Ser	Ala	Ser	Pro	Lvs	Glu
	5396				3140					3145					3150		
	5397	Clv	Hic	Pho			Thr	Pho				T.370	Zen	Thr			Δen
	5398	От у	1113	3155		Giu	1111		3160		1100	пуэ	PIOII			UL U	71011
		73 -	70			G	70				71	т	T	3165		Tr 1 _	т
	5399	тте			Leu					GIU	Asn	гÀг		Met	HIS	TTE	Leu
	5400		3170					3175					3180				
	5401	His	Ala	Asn	Asp	Pro	Lys	Trp	Ser	Thr	Pro	Thr	Lys	Asp	Cys	Thr	Ser
E>	5402	3185					3190					3195					320
	5403	Gly	Pro	Tyr	Thr	Ala	Gln	Ile	Ile	Pro	Gly	Thr	Gly	Asn	Lys	Leu	Leu
	5404					3205	5				3210	}				3215	, )
	5405	Met	Ser	Ser	Pro	Asn	Cys	Glu	Ile	Tyr	Tyr	Gln	Ser	Pro	Leu	Ser	Leu
	5406				3220		-			3225					3230		
	5407	Cvs	Met	Ala			Lvs	Ser				Pro	Val	Ser			Met
	5408	Oyo	1100	3235		11.2 9	Lyo		3240					3245		0.2.11	
	5409	ጥኮ~	Sor			CTTG	Tvc	C111			G 1 11	T10	7\ en	Asp		Tare	7 en
		1111			per	Cys		3255		шуз	Giu		3260		GTII	шуз	ASII
	5410	~	3250		_	70				D1	т				D	T	D
	5411	_		ьуs	Arg	Arg			Asp	Pne				Leu	Pro	Leu	
E>		3265	-				3270					3275		_			328
	5413	Pro	Pro	Val	Ser	Pro	Ile	Cys	Thr	Phe			Pro	Ala	Ala	Gln	Lys
	5414					3285					3290					3295	
	5415	Ala	Phe	Gln	Pro	Pro	Arg	Ser	Cys	Gly	Thr	Lys	Tyr	Glu	Thr	Pro	Ile
	5416				3300	)				3305	5				3310		
	5417	Lys	Lys	Lys	Glu	Leu	Asn	Ser	Pro	Gln	Met	Thr	Pro	Phe	Lys	Lys	Phe
	5418	-4	_	3315					3320					3325		_	
	5419	Asn	Glu			T.e.11	T.e.ii				Ser	Tle	Ala	Asp		Glu	Leu
	5420	11011	3330		001	200		3335					3340				
	5421	7\ 7 \			7 an	mb x	Cln			T 033	Cor	C1 17		Thr	C) 11	Clu	Tvc
				TTE	MSII	7.7.7.			neu	пец	Ser	3355		T 11T	Gry	Giu	336
ドーーン	5422			<b>7</b> 7 7	a .	** 7	3350		G	cm1	70			D	m1 1	C	
	5423	GIn	Phe	TTE	Ser			GLu	Ser	Thr			Ala	Pro	TUL		
	5424					3365					3370					3375	
	5425	Glu	Asp	Tyr	Leu	Arg	Leu	Lys				Thr	Thr	Ser			Lys
	5426				3380					3385					3390		
	5427	Glu	Gln	Glu	Ser	Ser	Gln	Ala	Ser	Thr	Glu	Glu	Cys	Glu	Lys	Asn	Lys
	5428			3395	5				3400	)				3405			
	5429	Gln	Asp	Thr	Ile	Thr	Thr	Lys	Lys	Tyr	Ile						
	5430		3410					3415		_							
		(2)	NFOF	RMATI	ON E	FOR S	SEO I	D NO	): 13	:						11	
	6316	(-, -					ARACI								Ĺ	$\mathcal{U}_{\mathcal{O}}$	
	6317		( /				341				19			ILA	/	7	
	6318						amino			acre	10			40		C	
										_			~A				
	6319						EDNES		_			Λ	10	40			
	6320						SY: 1			•		~(	1				
	6322	,	• /				E: E					,	,				
	6323						?E: i										
	6325						SCRIE										
	6327	Met	Pro	Ile	Gly	Ser	Lys	Glu	Arg	Pro	Thr	Phe	Phe	Glu	Ile	Phe.	Lys



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6328	1				5					10					15	
6329	Thr	Arg	Cys	Asn	Lys	Ala	Asp	Leu	Gly	Pro	Ile	Ser	Leu	Asn	Trp	Phe
6330			-	20	_		-		25					30	_	
6331	Glu	Glu	Leu	Ser	Ser	Glu	Ala	Pro	Pro	Tyr	Asn	Ser	Glu	Pro	Ala	Glu
6332			35					40		_			45			
6333	Glu	Ser	Glu	His	Lys	Asn	Asn	Asn	Tyr	Glu	Pro	Asn	Leu	Phe	Lys	Thr
6334		50	•				55					60			-	
6335	Pro	Gln	Arg	Lys	Pro	Ser	Tyr	Asn	Gln	Leu	Ala	Ser	Thr	Pro	Ile	Ile
6336	65			-		70	_				75					80
6337	Phe	Lys	Glu	Gln	Gly	Leu	Thr	Leu	Pro	Leu	Tyr	Gln	Ser	Pro	Val	Lys
6338					85					90	_				95	-
6339	Glu	Leu	Asp	Lys	Phe	Lys	Leu	Asp	Leu	Gly	Arg	Asn	Val	Pro	Asn	Ser
6340				100					105	_				110		
6341	Arg	His	Lys	Ser	Leu	Arg	Thr	Val	Lys	Thr	Lys	Met	Asp	Gln	Ala	Asp
6342			115					120					125			
6343	Asp	Val	Ser	Cys	Pro	Leu	Leu	Asn	Ser	Суѕ	Leu	Ser	Glu	Ser	Pro	Val
6344		130					135					140				
6345	Val	Leu	Gln	Cys	Thr	His	Val	Thr	Pro	Gln	Arg	Asp	Lys	Ser	Val	Val
6346	145					150					155					160
6347	Cys	Gly	Ser	Leu	Phe	His	Thr	Pro	Lys	Phe	Val	Lys	Gly	Arg	Gln	Thr
6348	_				165					170					175	
6349	Pro	Lys	His	Ile	Ser	Glu	Ser	Leu	Gly	Ala	Glu	Val	Asp	Pro	Asp	Met
6350				180					185					190		
6351	Ser	Trp	Ser	Ser	Ser	Leu	Ala	Thr	Pro	Pro	Thr	Leu	Ser	Ser	Thr	Val
6352			195					200					205			
6353	Leu	Ile	Val	Arg	Asn	Glu	Glu	Ala	Ser	Glu	Thr	Val	Phe	Pro	His	Asp
6354		210					215					220				
6355	Thr	Thr	Ala	Asn	Val	Lys	Ser	Tyr	Phe	Ser	Asn	His	Asp	Glu	Ser	Leu
6356	225					230					235					240
6357	Lys	Lys	Asn	Asp	Arg	Phe	Ile	Ala	Ser	Val	Thr	Asp	Ser	Glu	Asn	Thr
6358					245					250					255	
6359	Asn	Gln	Arg	Glu	Ala	Ala	Ser	His	Gly	Phe	Gly	Lys	Thr	Ser	Gly	Asn
6360				260					265		,			270		
6361	Ser	Phe	Lys	Val	Asn	Ser	Cys	Lys	Asp	His	Ile	Gly	Lys	Ser	Met	Pro
6362			275					280					285			
6363	His	Val	Leu	Glu	Asp	Glu	Val	Tyr	Glu	Thr	Val	Val	Asp	Thr	Ser	Glu
6364		290					295					300				
6365	Glu	Asp	Ser	Phe	Ser	Leu	Cys	Phe	Ser	Lys	Cys	Arg	Thr	Lys	Asn	Leu
6366	305					310					315					320
6367	Gln	Lys	Val	Arg	Thr	Ser	Lys	Thr	Arg	Lys	Lys	Ile	Phe	His	Glu	Ala
6368					325					330					335	
6369	Asn	Ala	Asp	Glu	Cys	Glu	Lys	Ser	Lys	Asn	Gln	Val	Lys	Glu	Lys	Tyr
6370				340					345					350		
6371	Ser	Phe		Ser	Glu	Val	Glu	Pro	Asn	Asp	Thr	Asp		Leu	Asp	Ser
6372			355					360					365			
6373	Asn		Ala	His	Gln	Lys		Phe	Glu	Ser	Gly		Asp	Lys	Ile	Ser
6374		370					375					380				
6375	_	Glu	Val	Val	Pro		Leu	Ala	Cys	Glu	_	Ser	Gln	Leu	Thr	
6376	385					390					395					400



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Input Set : A:\G150581u.txt

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6377 6378	Ser	Gly	Leu	Asn	Gly 405	Ala	Gln	Met	Glu	Lys 410	Ile	Pro	Leu	Leu	His 415	Ile
6379 6380	Ser	Ser	Cys	Asp 420	Gln	Asn	Ile	Ser	Glu 425	Lys	Asp	Leu	Leu	Asp 430	Thr	Glu
6381 6382	Asn	Lys	Arg		Lys	Asp	Phe	Leu 440		Ser	Glu	Asn	Ser 445		Pro	Arg
6383	Ile		435 Ser	Leu	Pro	Lys			Lys	Pro	Leu			Glu	Thr	Val
6384		450		_	_	5	455		1			460			_	-
6385 6386	Val 465	Asn	Lys	Arg	Asp	G1u 470	Glu	GIn	His	Leu	G1u 475	Ser	His	Thr	Asp	Cys 480
6387 6388	Ile	Leu	Ala	Val	Lys 485	Gln	Ala	Ile	Ser	Gly 490	Thr	Ser	Pro	Val	Ala 495	Ser
6389 6390	Ser	Phe	Gln	Gly 500	Ile	Lys	Lys	Ser	Ile 505	Phe	Arg	Ile	Arg	Glu 510	Ser	Pro
6391	Lys	Glu	Thr		Asn	Ala	Ser			Gly	His	Met			Pro	Asn
6392	77.1	<b>-</b>	515	<b>0.1</b>	rm1	<b>a1</b>	70 71 -	520	~3·-	G :	G1	т	525	T1.	11.5	ШЪ
6393 6394		530	Lys				535					540				
6395 6396	Val 545	Cys	Ser	Gln	Lys	Glu 550	Asp	Ser	Leu	Cys	Pro 555	Asn	Leu	Ile	Asp	Asn 560
		Com	m ww	Dro	7\ 1 \		The se	Пhх	Cln	7\ a.r.		77-7	70 7 7	Τ Ο 11	Tvo	
6397 6398			Trp		565					.570					575	
6399 6400	Ala	Gly	Leu	Ile 580	Ser	Thr	Leu	Lys	Lys 585	Lys	Thr	Asn	Lys	Phe 590	Ile	Tyr
6401	Ala	Tle	His		Glu	Thr	Ser	Tvr		Glv	Lvs	Lvs	Tle	Pro	Lvs	Asp
6402			595	_				600	-				605			
6403 6404	Gln	Lys 610	Ser	Glu	Leu	Ile	Asn 615	Cys	Ser	Ala	Gln	Phe 620	Glu	Ala	Asn	Ala
6405	Phe	Glu	Ala	Pro	Leu	Thr	Phe	Ala	Asn	Ala	Asp	Ser	Gly	Leu	Leu	His
6406	625					630					635		-			640
6407	Ser	Ser	Val	Lys	Arq	Ser	Cys	Ser	Gln	Asn	Asp	Ser	Glu	Glu	Pro	Thr
6408				-	645		-			650	-				655	
6409	Leu	Ser	Leu		Ser	Ser	Phe	Gly		Ile	Leu	Arg	Lys		Ser	Arg
6410				660			_		665				_	670	_	
6411 6412	Asn	GLu	Thr 675	Cys	Ser	Asn	Asn	Thr 680	Val	TTe	Ser	GLn	Asp 685	Leu	Asp	Tyr
6413	T.ve	Glu	Ala	T.370	Cvs	Zen	T.ve		1.77	T.013	Gln	T.011		Tle	Thr	Pro
6414	пуз	690	1114	шуз	Суз	LOU	695	02.0	any O	шса	OLI	700	1110	440	1113-	
6415	Glu	Ala	Asp	Ser	Leu	Ser	Cvs	Leu	Gln	Glu	Glv	Gln	Cvs	Glu	Asn	Asp
6416	705		-			710	- 4				715		4			720
6417		Lvs	Ser	Lvs	Lvs		Ser	Asp	Ile	Lvs		Glu	Val	Leu	Ala	Ala
6418				1-	725					730			-		735	
6419	Ala	Cys	His	Pro	Val	Gln	His	Ser	Lys	Val	Glu	Tyr	Ser	Asp	Thr	Asp
6420		_		740					745			_		750		
6421	Phe	Gln	Ser	Gln	Lys	Ser	Leu	Leu	Tyr	Asp	His	Glu	Asn	Ala	Ser	Thr
6422			755		-			760					765			
6423	Leu	Ile	Leu	Thr	Pro	Thr	Ser	Lys	Asp	Val	Leu	Ser	Asn	Leu	Val	Met
6424		770					775					780				
6425	Ile	Ser	Arg	Gly	Lys	Glu	Ser	Tyr	Lys	Met	Ser	Asp	Lys	Leu	Lys	Gly



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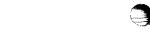
DATE: 06/25/2001 TIME: 11:40:55

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

	6426	785					790					795					8:00
	6427		Asn	Tyr	Glu	Ser		Val	Glu	Leu	Thr		Asn	Tle	Pro	Met	
	6428					805	1-	,			810	1				815	o z a
	6429	Lvs	Asn	Gln	Asp		Cvs	Ala	Leu	Asn		Asn	Tvr	Lvs	Asn		Glu
	6430	-1-			820		- 2	0		825			- 1	-1-	830		024
	6431	Leu	Leu	Pro	Pro	Glu	Lvs	Tvr	Met	Arg	Val	Ala	Ser	Pro	Ser	Ara	Lvs
	6432			835			-1 ·-	- 1 -	840	9				845	-	9	-1-
	6433	Val	Gln	Phe	Asn	Gln	Asn	Thr	Asn	Leu	Ara	Val	Ile	Gln	Lvs	Asn	Gln
	6434		850					855					860		1		
	6435	Glu	Glu	Thr	Thr	Ser	Ile	Ser	Lys	Ile	Thr	Va.1	Asn	Pro	Asp	Ser	Glu
	6436	865					870		-			875			*		880
	6437	Glu	Leu	Phe	Ser	Asp	Asn	Glu	Asn	Asn	Phe	Val	Phe	Gln	Ile	Ala	Asn
	6438					885					890					895	
	6439	Glu	Arg	Asn	Asn	Leu	Ala	Leu	Gly	Asn	Thr	Lys	Glu	Leu	His	Glu	Thr
	6440				900				-	905		-			910		
	6441	Asp	Leu	Thr	Cvs	Val	Asn	Glu	Pro	Ile	Phe	Lys	Asn	Ser	Thr	Met	Val
	6442	-		915	_				920			-2		925			
	6443	Leu	Tyr	Gly	Asp	Thr	Gly	Asp	Lys	Gln	Ala	Thr	Gln	Val	Ser	Ile	Lys
	6444		930	_	+		-	935	-				940				-
	6445	Lys	Asp	Leu	Val	Tyr	Val	Leu	Ala	Glu	Glu	Asn	Lys	Asn	Ser	Val	Lys
	6446	945	_			**	950					955	_				960
	6447	Gln	His	Ile	Lys	Met	Thr	Leu	Gly	Gln	Asp	Leu	Lys	Ser	Asp	Ile	Ser
	6448				_	965			_		970		***		_	975	
	6449	Leu	Asn	Ile	Asp	Lys	Ile	Pro	Glu	Lys	Asn	Asn	Asp	Tyr	Met	Asp	Lys
	6450				980					985					990		
	6451	Trp	Ala	Gly	Leu	Leu	Gly	Pro	Ile	Ser	Asn	His	Ser	Phe	Gly	Gly	Ser
	6452			995					1000	)				1005	5 .		
	6453	Phe	Arg	Thr	Ala	Ser	Asn	Lys	Glu	Ile	Lys	Leu	Ser	Glu	His	Asn	Ile
	6454		1010					1015	5				1020	)			
	6455	Lys	Lys	Ser	Lys	Met	Phe	Phe	Lys	Asp	Ile	Glu	Glu	Gln	Tyr	Pro	THY
E>		1025					1030					1035				(	104
	6457	Ser	Leu	Ala	Cys			Ile	Val	Asn			Ala	Leu	Asp		
	6458	_	_			1045					1050			-		1055	
	6459	Lys	Lys	Leu		-	Pro	Gln	Ser	Ile		Thr	Val	Ser			Leu
	6460		_		1060			_	_	1065		_	_		1070		_
	6461	GIn	Ser			Val	Val	Ser	-	Cys	Lys	Asn	Ser			Thr	Pro
	6462	0.7		1075		~		a1	1080			~	-	1085		<b>~</b>	m1.
	6463	GIn			Phe	Ser	ГÀ2			Phe	Asn	Ser			Asn	Leu	Thr
	6464		1090	-	<b>T</b>	73 7	0.7	1095		<i>a</i> 3	¥ .		1100		т	<b>01</b>	G1
	6465			GIn	Lys	Ата			Thr	Glu	ьeu			тте	ren	GLU	′ )
E>		1105		α .	<i>α</i> 11	D).	1110		m1	01	Dl	1115		D	0		112/
	6467	ser	СТА	Ser	GIN			Pne	Thr	Gln			гуѕ	Pro	ser		
	6468	τ	O1	T	C	1125		C1	17-7	D	1130		01 m	Made	m1 <sub>b</sub>	1135	
	6469	ьeu	GTIJ	пЛа			Fue	GIU	val	Pro		ASII	GIN	Mec			ьеи
	6470	T	m b ~	mb sc	1140		Cl.,	Cvc	7 × ~	1145		7 ~~	T 0	ц; ~	1150		Mo+
	6471 6472	nλg	TIIT	11155		GTU	GTU	Cys	1160	Asp	WIG	ush	теп	1165		TTG	MEL
	6473	Acr	7\1 \	_		T10	Gla	G1n		Asp	Sar	Sor	Luc			Glas	Glv
	6474	ASII	117(		Det.	TTG	GTĀ	1175		nsp	SeT	Ser	ьуs 118(		EIIG	G L U	GTA
	04/4		TT/(	J				TT/-	,				770/				

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# RAW SEQUENCE LISTING PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:55

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

E>	6475 <b>6476</b>	Thr 1185		Glu	Ile	Lys	Arg 1190	-		Ala		Leu 1195		Lys	Asn	Asp	Cys <b>120</b>
	6477			Ser	Ala			Tyr	Leu	Thr		Glu		Glu	Val		
	6478					1205	5				1210	)				1215	5
	6479 6480	Arg	Gly	Phe	Tyr 1220			His		Thr 1225		Leu	Asn	Val	Ser 1230		Glu
		70 7	~	<b>a</b> 1			* 7 7	T	T			70	т1_	01			C = 40
	6481 6482	Ата	Leu	1235		ALA	var	гуѕ	1240	Phe )	ser	Asp		1245		тте	ser
	6483	Glu	Glu	Thr	Ser	Ala	Glu	Val	His	Pro	Ile	Ser	Leu	Ser	Ser	Ser	Lys
	6484		1250	)				1255	õ				1260	)			
	6485	Cys	His	Asp	Ser	Val	Val	Ser	Met	Phe	Lys	Ile	Glu	Asn	His	Asn	
E>	6486	1265					1270					1275					128
	6487	Lys	Thr	Val	Ser	Glu	Lys	Asn	Asn	Lys	Cys	Gln	Leu	Ile	Leu	Gln	Asn
	6488					1285	5				1290	)				1295	· .
	6489	Asn	Ile	Glu	Met	Thr	Thr	Gly	Thr	Phe	Val	Glu	Glu:	Ile	Thr	Glu	Asn
	6490				1300					1305					1310		
	6491	Tvr	Lvs	Ara	Asn	Thr	Glu	Asn	Glu	Asp	Asn	Lvs	Tvr	Thr	Ala	Ala	Ser
	6492	- 1	1	1315					1320			4 -	_	1325			
	6493	Ara	Asn			Asn	Len	Glu		Asp	Glv	Ser	Asp	Ser	Ser	Lvs	Asn
	6494	-11-9	1330		11.2.0	11011		1335		1101	0-1		1340			-1-	
	6495	Asn			Cus	Tle	His			Glu	Thr				Phe	Thr	Asp
E>		1345		Val	Cys	110	1350		1100	01.4	1111	1355			2.110		136
E>				7) ~~~	тіс	C			Т ол	Ser	Clrr			Mot	Tara	Clas	
	6497	GIII	HIS	ASII	тте	1365		туг	ьец	ser	1370		FIIG		пур	1375	
	6498	70 -	pg11	~ <b>7</b>	~ ·			20	7	O			mh as				
	6499	Asn	Thr	GIN		-	GTH.	Asp	ьeu	Ser	_	ьeu	THE	rne			vaı
	6500			~ 7	1380		20.7	~		1385		m1		70	1390		C1-
	6501	Ala	ГÀг			GLu	Ala	Cys		Gly	Asn	Thr	Ser			GLU	GTU
	6502			1395					1400				_	1405		rm.)	~
	6503	Leu			Thr	Lys	Thr			Asn	TTE	ьys			GLu	Thr	Ser
	6504		1410					1415					1420				
	6505	Asp	Thr	Phe	Phe	Gln			Ser	Gly	Lys			Ser	Val	Ala	
E>	6506	1425					1430					1435					144
	6507	Glu	Ser	Phe	Asn	Lys	Ile	Val	Asn	Phe	Phe	Asp	Gln	Lys	Pro	Glu	Glu
	6508					1445					1450					1455	
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	6510				1460					1465					1470		
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	6512			1475					1480					1485			
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	6514	_	1490		-			1495					1500				
	6515	Thr	Phe	Gln	Glv	Gln	Pro	Glu	Ara	Asp	Glu	Lys	Ile	Lys	Glu	Pro	Thr
E>	6516	1509			1		1510		,	-		1515		-			152
	6517			Glv	Phe	His			Ser	Gly	Lvs	Lvs	Val	Lvs	Ile	Ala	Lvs
	6518	Loa		O-1 y		1525				1	1530					1535	
	6519	Glu	Ser	T.e.11	Aen			T.375	Asn	Leu			Glu	Livs	Glii		
	6520	ULU		11GU	154(		v CL.L.	Ly y	11011	1545			J = U	٠٠ ٧٠٠	1550		~ y
	6521	Th ~	Sor	Glar.			Sar	Dho	Sar	His		Trn	Δ1 =	Tare			Live
	6522	TIIT	りらて	1555		TIIT	DET	TILE	1560		GIII		17T CI	1565		110 U	пус
		т	71 20 ~			C	T	7\~~			T 011	7/3 ~	C 170			T 1 a	Glu
	6523	ryr	Hr.d	GTU	HTG	$C\lambda z$	ъÀг	ASP	ьeu	Glu	Tien	Ara	-ys	GTU	TIIT	TTG	GIU

Same





PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:55

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\1084471B.raw

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	6525	Ile	Thr	Ala	Ala	Pro	Lvs			Glu	Met	Gln			Leu	Asn	Asn
E>	6526	1585					1590		4			1595					160
	6527	Asp	Lys	Asn	Leu	Val			Glu	Thr	Val			Pro	Lvs	Leu	
	6528	-				1605					1610				4	1615	
	6529	Ser	Asp	Asn	Leu	Cys	Ara	Gln	Thr	Glu	Asn	Leu	Lys	Thr	Ser	Lys	Ser
	6530		-		1620		_			1625			-		1630		
	6531	Ile	Phe	Leu	Lys	Val	Lys	Val	His	Glu	Asn	Val	Glu	Lys	Glu	Thr	Ala
	6532			1639			-		1640					1645			
	6533	Lys	Ser	Pro	Ala	Thr	Cys	Tyr	Thr	Asn	Gln	Ser	Pro	Tyr	Ser	Val	Ile
	6534		1650	)				1655	5				1660	)			
	6535	Glu	Asn	Ser	Ala	Leu	Ala	Phe	Tyr	Thr	Ser	Cys	Ser	Arg	Lys	Thr	Ser
E>	6536	1665					1670					1675					168
	6537	Val	Ser	Gln	Thr	Ser	Leu	Leu	Glu	Ala	Lys	Lys	Trp	Leu	Arg	Glu	Gly
	6538					1685					1690					1695	
	6539	Ile	Phe	Asp	Gly	Gln	Pro	Glu	Arg	Ile	Asn	Thr	Ala	Asp	Tyr	Val	Gly
	6540				1700	)				1705	, )				1710	)	
	6541	Asn	Tyr	Leu	Tyr	Glu	Asn	Asn		Asn	Ser	Thr	Ile	Ala	Glu	Asn	Asp
	6542			1715					1720					1725			
	6543	Lys			Leu	Ser	Glu			Asp	Thr	Tyr			Asn	Ser	Ser
	6544		1730		_			1735			_		1740		_	_	_
	6545			Asn	Ser	Tyr			His	Ser	Asp			Tyr	Asn	Asp	
E>		1745		~	~	~	1750		-	70	<u>~</u>	1755		0.7	_	** 7	176
	6547	GLY	Tyr	Leu	Ser	-		Lys	Leu	Asp		_	TTE	GLU	Pro		
	6548	T	7\	7707	C1	1765		T	7)	ml <sub>a-ra</sub>	1770		C	T~	77a 1	1775	
	6549 6550	гуѕ	ASII	Val	1780	_		пуѕ		Thr 1785		FILE	per	пÃ2	1790		ser
	6551	Nen	T c U	Tare						Pro		Thr	U⊃1	Aen			Tla
	6552	ASII	vaı	1795		пта	USII	пта	1800		GIII	T 11T	val	1805		дар	TTC
	6553	Cvs	Va 1			Len	Val	Thr		Ser	Ser	Pro	Cvs			Lvs	Asn
	6554	O y D	1810		OIG	43 O C	V C4.11	1815		201	001		1820	-	11011	y .	11011
	6555	Ala			Lvs	Leu	Ser			Asn	Ser	Asn			Glu	Val	Glv
E>		1825			1		1830					1835					184
	6557	Pro	Pro	Ala	Phe	Arq	Ile	Ala	Ser	Gly	Lys	Ile	Val	Cys	Val	Ser	His
	6558					1845					1850			-		1855	
	6559	Glu	Thr	Ile	Lys	Lys	Val	Lys	Asp	Ile	Phe	Thr	Asp	Ser	Phe	Ser	Lys
	6560				1860	)				1865					1870	ŀ	
	6561	Val	Ile	Lys	Glu	Asn	Asn	Glu	Asn	Lys	Ser	Lys	Ile	Cys	Gln	Thr	Lys
	6562			1875	·				1880	)				1885	,		
	6563	Ile	Met	Ala	Gly	Cys	Tyr	Glu	Ala	Leu	Asp	Asp	Ser	Glu	Asp	Ile	Leu
	6564		1890					1895					1900				
	6565	His	Asn	Ser	Leu	Asp	Asn	Asp	Glu	Cys	Ser	Thr	His	Ser	His	Lys	Val
E>		1905					1910					1915					192
	6567	Phe	Ala	Asp	Ile			Glu	Glu	Ile			His	Asn	Gln		
	6568					1925		_			1930					1935	
	6569	Ser	Gly	Leu			Va⊥	Ser	Lys	Ile		Pro	Cys	Asp			Leu
	6570	C 1	mı.	α.	1940		Q	т.,	<b>a</b>	1945		<i>α</i> :	т	T	1950		0
	6571	GLU	Thr			тте	cys	гÀг	_	Ser	тте	етλ	гуѕ			тÀг	ser
	6572			1955	)				1960	)				1965	)		



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DATE: 06/25/2001 TIME: 11:40:55

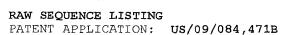
Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

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	6574		1970					1975				-	1980			_	1
	6575	Ser	Val	Gln	Val	Ser	Asp	Ala	Ser	Leu	Gln	Asn	Ala	Arg	Gln	Val	Phe
E>		1985					1990					1995					200
	6577	Ser	Glu	Ile	Glu	Asp		Thr	Lys	Gln			Ser	Lys	Val		
	6578	_	_			2005		_	~ "		2010		~-	~ 1		2015	
	6579	ГЛЗ	Ser	Asn		His	Ser	Asp	GIn			Arg	GLu				Ala
	6580 6581	Tlo	71	Πh ×	2020	Glu	uio	T 0.11	Tlo	2025		T	C1 **		2030		7) an
	6582	тте	Arg	2035		Gra	птѕ	ьeu	2040		GIII	гуэ	ату	2045		тйт	ASII
	6583	Val	Val			Ser	Ala	Phe			Phe	Ser	Thr			Glv	Lvs
	6584	V CL	2050		001	001	2120	2055		OT Y	2110	001	2060		201	0 ± 3	y.0
	6585	Gln	Val	Ser	Ile	Leu	Glu	Ser	Ser	Leu	His	Lys	Val	Lys	Gly	Val	Leu
E>	6586	2065	5				2070	)				2075	5	-	-		208
	6587	Glu	Glu	Phe	Asp	Leu	Ile	Arg	Thr	Glu	His	Ser	Leu	${ t His}$	Tyr	Ser	Pro
	6588					2085					2090					2095	
	6589	Thr	Ser	Arg		Asn	Val	Ser				Pro	Arg	Val			Arg
	6590	_	_		2100	-		_		2105		7	_		2110		-
	6591	Asn	Pro			Cys	Val				Met	Glu				Ser	Lys
	6592 6593	C1	Dho	2115		Ser	7 an		2120		₹# 1	Clas		2125		Cor	Clu
	6594	GIU	2130	_	цец	ser	ASII	2135		ASII	val	GTU	2140		ser	ser	GIU
	6595	Asn			Ser	Ile	Lizzs			Pro	Tur	I.em			Phe	Gln	Gln
E>		2145		11.1.0	DOL	110	2150		DOI	110		2155		0111	1110	0.1.11	216
	6597			Gln	Gln	Leu			Gly	Thr				Leu	Val	Glu	
	6598		_1			2165					2170					2175	
	6599	Ile	His	Val	Leu	Gly	Lys	Glu	Gln	Ala	Ser	Pro	Lys	Asn	Val	Lys	Met
	6600				2180					2185					2190		
	6601	Glu	Ile			Thr	Glu	Thr			Asp	Val	Pro			Thr	Asn
	6602		~ .	2195		_	m+1	_	2200		_	a	<b>~</b> 1	2205		TD.1	<b>C</b> 2
	6603	TTE			Cys	Ser	Thr	Tyr 2215		гàг	Asp	Ser	2220		туr	Pne	GLU
	6604 6605	Thr	2210		Val	Glu	T16					Mat			Asn	Glu	T.em
E>		2225		лта	νал	GIU	2230		пуо	ALG	1.110	2235		715p	пор	Olu	224
	6607			Ser	Lvs	Leu			His	Ala	Thr			Leu	Phe	Thr	
	6608		-1			2245					2250					2255	
	6609	Pro	Glu	Asn	Glu	Glu	Met	Val	Leu	Ser	Asn	Ser	Arg	Ile	Gly	Lys	Arg
	6610				2260					2265					2270		
		Arg	Gly			Leu					Glu	Pro	Ser			Arg	Asn
	6612		_	2275					2280			_		2285		~	_
	6613	Leu			Glu	Phe	Asp			Ile	G.Lu	Asn			Lys	Ser	ьeu
	6614	τ	2290		T	0 - 10	III lo se	2295		01	m lo so	Tlo	2300		7) : ~	7) 20 07	Lou
F>	6615	டழ்த் 2305		ser	туѕ	Ser	2310		ASP	СтУ	TIIT	2315		Asp	ALG	ALG	232
E>												2010	,				
	<b>6616</b>			Hie	Hic	Val			Glu	Pro	Tle	Thr	CVS	Val	Pro	Phe	Ara
	6617			His	His	Val 2325	Ser		Glu	Pro			Суѕ	Val	Pro	Phe 2335	
		Phe	Met			2325	Ser	Leu			2330	)				2335	5
	6617 6618	Phe	Met			2325 Arg	Ser	Leu			2330 Asn	)				2335 Ala	5

Mark





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	6622			2355	=				2360	<b>1</b>				2365	5		
	6623	C3.,,	Tura			Com	7.~~	Τ			C 0.70	C1	ni a			m	C15
	6624	GLU	дуs 237(		per	Ser	ASII	2375		Val	ser	GTÀ	2380		FIIG	TAT	GIII
	6625	77 1			(11)	7)	71			Mat	7) 01	11:0			mb	III)o na	C1
				Ата	THE	Arg			гуу	Mec	Arg			тте	THE	THE	
E>		238		m1.	τ		2390		F.	<b>F</b>	T3)	2395		<b>T</b>	G -	** .	240
	6627	Arg	Pro	Thr	гàг	Val		val	Pro	Pro		-	Thr	љуs	ser		
	6628		~		~-	2405			_	_	2410		~	~ 1	~ 3	2415	
	6629	HIS	Arg	val		Gln	Cys	val	Arg			Asn	Leu	GIU			Arg
	6630		_		2420		_			2425		_	_	~	2430		_
	6631	GIn	Lys			Ile	Asp	GLY			Ser	Asp	Asp			Asn	Lys
	6632			2435					2440			_		2445		_	
	6633	Ile			Asn	Glu	ITe			Phe	Asn	Lys			Ser	Asn	GIn
	6634		2450					2455		_		~ .	2460		_	_	_
	6635			Ala	Val	Thr			Lys	Cys	Glu			Pro	Leu	Asp	
E>		246			_		2470		_	_		2475			-		248
	6637	Ile	Thr	Ser	Leu	Gln		Ala	Arg	Asp			Asp	Met	Arg		
	6638		_			2485				_	2490			-	_	2495	
	6639	Lys	LÀS	GIn	_	Gln	Arg	Val	Phe			Pro	GLY	Ser			Leu
	6640		_		2500		_	_	_	2505			-		2510		a 1
	6641	Ala	Lys			Thr	Leu	Pro	-		Ser	Leu	Lys			Val	GTĀ
	6642			2515		-		_	2520		_	G 1	-	2525		-	
	6643	Gly			Pro	Ser	Ala			HIS	гÀг	GIN			Tnr	Tyr	стА
	6644	r 7 7	2530			~	1	2535		70	α	<b>T</b>	2540		G1	<b>C</b>	Dl
_	6645			гла	HIS	Cys			тте	ASII	ser			Ald	GIU	ser	
E>		2545		***	m1	01	2550		1532 -	C1	T	2555		т	П	mh a	256
	6647	GIN	Phe	HIS	Thr	Glu	_	Tyr	Pne	GTÀ			Ser.	теп	пр		
	6648	T	C3	T 7 -	C1	2565		7)	C1	C1	2570		тіс	Dwo	Com	2575	
	6649	гуѕ	GTÀ	тте		Leu	ALd	ASP	GTA	2585	_	теп	тте	PLO	2590		ASP
	6650	C1	T	70 7	2580		Clu	C1	Dho			7. 7. ~	Ťou	Cvio			Pro
	6651 6652	GTÀ	гЛS	2595	_	Lys	GIU	GIU	2600	-	ALG	Ald	пеп	2605		T 111"	FLO
	6653	Clar	17.5.1			Lys	Lou	T10			Tla	Tro	บาไ			Иiс	ጥ፣፣ም
	6654	GTÀ	2610	~	L T O	пуз	шeu	2615		Arg	116	ттЪ	2620		7,511	113.5	1 Y 1.
	6655	Ara			ΤlΔ	Trp	T.ve			Δla	Met	Glu			Phe	Pro	Lvs
E>		2625		110	110	TTF	2630		TILA	1 X L CI	1100	2635		71.L. CI	1110	110	264
4 /	6657			Δla	Agn	Arg			Ser	Pro	Glu			Leu	Len	Gln	
	6658	OLU	1110	1110	11011	2645		шои	DOL	110	2650		701	200	3300	2655	
	6659	T.vs	Tur	Δra	Tur	Asp		Glu	Tle	Asn			Ara	Ara	Ser		
	6660	пур	1 Y 1	nig	2660		<b>1</b> 11.1.	OLU	410	2665		DOL	24-9	1119	2670		
	6661	T.176	7.v.c	Tle		Glu	Ara	Asn	Asp			Ala	Lvs	Thr			Leu
	6662	туу	Lyo	2675		0 0	9		2680			× 120 Ct	-1-	2685			
	6663	Cvs	Val		-	Ile	Tle	Ser			Ala	Asn	Ile			Thr	Ser
	6664	Oyb	2690		1106			2695		~ ~			2700				
	6665	Ser			Thr	Ser	Ser			Thr	Gln	Lvs			Ile	Ile	Glu
E>		2705		1-			2710		. T.			2715					272
	6667			asA	Glv	Trp			Val	Lys	Ala			Asp	Pro	Pro	
	6668			- T.	- 1	2725					2730			-		2735	
	6669	Leu	Ala	Val	Leu	Lys		Gly	Arg	Leu			Gly	Gln	Lys	Ile	Ile
	6670				2740			-	_	2745			-		2750		

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Input Set : A:\G150581u.txt

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									_								
	6671 6672	Leu	His	Gly 2755		Glu	Leu	Val	Gly 2760		Pro	Asp	Ala	Cys 2765		Pro	Leu
	6673	Glu		Pro	-	Ser	Leu		Leu		Ile	Ser		Asn	Ser	Thr	Arg
	6674		2770					2775					2780	-			
E>	6675 <b>6676</b>	Pro 2785		Arg	Trp	Tyr	Thr 2790			Gly				Asp	Pro	Arg	Pro <b>280</b>
<b>~</b> /	6677			Len	Pro	T. (21)								Gly	Asn	Val	
	6678					2805	5				2810	)				2815	5
	6679	Cys	Val	Asp	Val	Ile	Ile	Gln	Arg	Ala	Tyr	Pro	Ile	Gln	Trp	Met	Glu
	6680				2820					2825	-				2830		
	6681	Lys	Thr	Ser	Ser	Gly	Leu	Tyr	Ile	Phe	Arg	Asn	Glu	Arg	Glu	Glu	Glu
	6682			2835					2840					2845			
	6683	Lys	Glu	Ala	Ala	Lys	Tyr	Val	Glu	Ala	Gln	Gln	Lys	Arg	Leu	Glu	Ala
	6684		2850					2855					2860				
	6685	Leu	Phe	Thr	Lys	Ile	Gln	Glu	Glu	Phe	Glu	Glu	His	Glu	Glu	Asn	Thr
E>	6686	2865					2870	-				2875					288
	6687	Thr	Lys	Pro	Tyr	Leu	Pro	Ser	Arg	Ala			Arg	Gln	Gln		_
	6688					2885					2890					2895	
	6689	Ala	Leu	Gln			Ala	Glu				Ala	Val	Lys			Ala
	6690				2900			_		2905					2910		
	6691	Asp	Pro		-	Leu	Glu	Gly			Ser	Glu	Glu	Gln		Arg	Ala
	6692	_	_	2915					2920		_		_	2925		~ 3	
	6693	Leu			His	Arg	GIn			Asn	Asp	ГÀЗ		Gln	Ala	GIn	lle
	6694	~ 1	2930		77.7	-	<b>-</b>	2935		<b>~</b> 3		70 71 .	2940	-	T	G1	<i>~</i> 1
	6695	GIN	Leu	GLU	TTE	Ara	LVS	rnr	мет	GIU	ser	Ата	GTU	GTH	上VS	GLU	CTII
	~~~					5									4		
E>		2945	5				2950	)				2955	5				296
E>	6697	2945	5			Asp	<b>2950</b> Val	)		Val	Trp	<b>295</b> 5	5	Arg		Val	<b>296</b> Ser
E>	6697 6698	<b>294</b> 5 Gly	<b>S</b> Leu	Ser	Arg	Asp 2965	<b>2950</b> Val	) Thr	Thr	Val	Trp 2970	<b>295</b> 5 Lys )	5 Leu	Arg	Ile	Val 2975	<b>296</b> Ser
E>	6697 6698 6699	<b>294</b> 5 Gly	<b>S</b> Leu	Ser	Arg Lys	Asp 2965 Glu	<b>2950</b> Val	) Thr	Thr Ser	Val Val	Trp 2970 Ile	<b>295</b> 5 Lys )	5 Leu		Ile Trp	Val 2975 Arg	<b>296</b> Ser
E>	6697 6698 6699 6700	2945 Gly Tyr	Leu Ser	Ser Lys	Arg	Asp 2965 Glu )	<b>2950</b> Val Lys	Thr Asp	Thr Ser	Val Val 2985	Trp 2970 Ile	<b>2955</b> Lys ) Leu	Leu Ser	Arg Ile	Ile Trp 2990	Val 2975 Arg )	296 Ser Pro
E>	6697 6698 6699	2945 Gly Tyr	Leu Ser	Ser Lys	Arg Lys 2980 Leu	Asp 2965 Glu	<b>2950</b> Val Lys	Thr Asp	Thr Ser	Val Val 2985 Thr	Trp 2970 Ile	<b>2955</b> Lys ) Leu	Leu Ser	Arg	Ile Trp 2990 Tyr	Val 2975 Arg )	296 Ser Pro
E>	6697 6698 6699 6700 6701	2945 Gly Tyr Ser	Leu Ser Ser	Ser Lys Asp 2995	Arg Lys 2980 Leu	Asp 2965 Glu ) Tyr	2950 Val Lys Ser	Thr Asp Leu	Thr Ser Leu 3000	Val Val 2985 Thr	Trp 2970 Ile Glu	2955 Lys ) Leu Gly	Leu Ser Lys	Arg Ile Arg	Ile Trp 2990 Tyr	Val 2975 Arg ) Arg	296 Ser Pro
E>	6697 6698 6699 6700 6701 6702	2945 Gly Tyr Ser	Leu Ser Ser	Ser Lys Asp 2995 Leu	Arg Lys 2980 Leu	Asp 2965 Glu ) Tyr	2950 Val Lys Ser	Thr Asp Leu	Thr Ser Leu 3000 Ser	Val Val 2985 Thr	Trp 2970 Ile Glu	2955 Lys ) Leu Gly	Leu Ser Lys	Arg Ile Arg 3005 Glu	Ile Trp 2990 Tyr	Val 2975 Arg ) Arg	296 Ser Pro
E>	6697 6698 6699 6700 6701 6702 6703	2945 Gly Tyr Ser	Leu Ser Ser His 3010	Ser Lys Asp 2995 Leu	Arg Lys 2980 Leu Ala	Asp 2965 Glu ) Tyr	Val Val Lys Ser	Thr Asp Leu Lys 3015	Thr Ser Leu 3000 Ser	Val Val 2985 Thr ) Lys	Trp 2970 Ile 6 Glu Ser	Lys Leu Gly Lys	Leu Ser Lys Ser 3020	Arg Ile Arg 3005 Glu	Ile Trp: 2990 Tyr S	Val 2975 Arg ) Arg Ala	296 Ser Pro Ile Asn
E>	6697 6698 6699 6700 6701 6702 6703 6704 6705	2945 Gly Tyr Ser Tyr Ile 3025	Leu Ser Ser His 3010	Ser Lys Asp 2995 Leu )	Lys 2980 Leu Ala	Asp 2965 Glu Tyr Thr	Val Val Lys Ser Ser Thr 3030	Thr Asp Leu Lys 3015 Lys	Thr Ser Leu 3000 Ser Lys	Val Val 2985 Thr ) Lys	Trp 2970 Ile Glu Ser	Lys Leu Gly Lys Tyr 3035	Leu Ser Lys Ser 3020 Gln	Arg Ile Arg 3005 Glu Gln	Ile Trp 2990 Tyr Arg	Val 2975 Arg Arg Ala	296 Ser Pro Ile Asn Val 304
	6697 6698 6699 6700 6701 6702 6703 6704 6705	2945 Gly Tyr Ser Tyr Ile 3025	Leu Ser Ser His 3010	Ser Lys Asp 2995 Leu )	Lys 2980 Leu Ala	Asp 2965 Glu Tyr Thr	Val Val Lys Ser Ser Thr 3030	Thr Asp Leu Lys 3015 Lys	Thr Ser Leu 3000 Ser Lys	Val Val 2985 Thr ) Lys	Trp 2970 Ile Glu Ser	Lys Leu Gly Lys Tyr 3035	Leu Ser Lys Ser 3020 Gln	Arg Ile Arg 3005 Glu	Ile Trp 2990 Tyr Arg	Val 2975 Arg Arg Ala	296 Ser Pro Ile Asn Val 304
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b>	2945 Gly Tyr Ser Tyr Ile 3025 Ser	Leu Ser Ser His 3010 Gln Asp	Ser Lys Asp 2995 Leu Leu Glu	Arg Lys 2980 Leu Ala Ala	Asp 2965 Glu Tyr Thr Ala Leu 3045	2950 Val Lys Ser Ser Thr 3030 Phe	Thr Asp Leu Lys 3015 Lys Gln	Thr Ser Leu 3000 Ser Lys Ile	Val Val 2985 Thr ) Lys Thr	Trp 2970 Ile Glu Ser Gln Gln 3050	Lys Leu Gly Lys Tyr 3035	Leu Ser Lys Ser 3020 Gln Arg	Arg Ile Arg 3005 Glu Gln Glu	Trp 2990 Tyr Arg Leu	Val 2975 Arg ) Arg Ala Pro Leu 3055	296 Ser Pro Ile Asn Val 304 His
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b>	2945 Gly Tyr Ser Tyr Ile 3025 Ser	Leu Ser Ser His 3010 Gln Asp	Ser Lys Asp 2995 Leu Leu Glu	Arg Lys 2980 Leu Ala Ala	Asp 2965 Glu Tyr Thr Ala Leu 3045	2950 Val Lys Ser Ser Thr 3030 Phe	Thr Asp Leu Lys 3015 Lys Gln	Thr Ser Leu 3000 Ser Lys Ile	Val Val 2985 Thr ) Lys Thr	Trp 2970 Ile Glu Ser Gln Gln 3050	Lys Leu Gly Lys Tyr 3035	Leu Ser Lys Ser 3020 Gln Arg	Arg Ile Arg 3005 Glu Gln	Trp 2990 Tyr Arg Leu Pro	Val 2975 Arg ) Arg Ala Pro Leu 3055 Glu	296 Ser Pro Ile Asn Val 304 His
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707	2945 Gly Tyr Ser Tyr Ile 3025 Ser	Ser Ser His 3010 Gln Asp	Lys Asp 2995 Leu Leu Glu Lys	Arg Lys 2980 Leu Ala Ala Ile Phe 3060	Asp 2965 Glu ) Tyr Thr Ala Leu 3045 Leu	Z950 Val Lys Ser Ser Thr 3030 Phe	Thr Asp Leu Lys 3015 Lys Gln Pro	Thr Ser Leu 3000 Ser Lys Lys Ile Asp	Val Val 2985 Thr Lys Thr Tyr Phe 3065	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln	Lys Leu Gly Lys Tyr 3035 Pro	Leu Ser Lys Ser 3020 Gln Arg	Arg Ile Arg 3005 Glu Glu Glu Cys	Trp 2990 Tyr Arg Leu Pro Ser 3070	Val 2975 Arg Arg Ala Pro Leu 3055 Glu	296 Ser Pro Ile Asn Val 304 His
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709	2945 Gly Tyr Ser Tyr Ile 3025 Ser	Ser Ser His 3010 Gln Asp	Lys Asp 2995 Leu Leu Glu Lys	Arg Lys 2980 Leu Ala Ala Ile Phe 3060	Asp 2965 Glu ) Tyr Thr Ala Leu 3045 Leu	Z950 Val Lys Ser Ser Thr 3030 Phe	Thr Asp Leu Lys 3015 Lys Gln Pro	Thr Ser Leu 3000 Ser Lys Ile Asp	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln	Lys Leu Gly Lys Tyr 3035 Pro	Leu Ser Lys Ser 3020 Gln Arg	Arg Ile Arg 3005 Glu Glu Glu Cys Thr	Trp 2990 Tyr 5 Arg Leu Pro Ser 3070	Val 2975 Arg Arg Ala Pro Leu 3055 Glu	296 Ser Pro Ile Asn Val 304 His
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp	Leu Ser Ser His 3010 Gln Asp Ser Leu	Ser Lys Asp 2995 Leu Leu Glu Lys Ile 3075	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu )	2950 Val Lys Ser Ser Thr 3030 Phe Asp	Thr Asp Leu Lys 3015 Lys Gln Pro Val	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080	Val Val 2985 Thr ) Lys Thr Tyr Phe 3065 Val	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln Val	Lys Leu Gly Lys Tyr 3035 Pro Pro	Leu Ser Lys Ser 3020 Gln Arg Ser	Arg Ile Arg 3005 Glu Glu Cys Thr 3085	Trp 2990 Tyr Arg Leu Pro Ser 3070 Gly	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu	296 Ser Pro Ile Asn Val 304 His Val Ala
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp	Leu Ser Ser His 3010 Gln Asp Ser Leu	Ser Lys Asp 2995 Leu Leu Glu Lys Ile 3075	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu )	2950 Val Lys Ser Ser Thr 3030 Phe Asp	Thr Asp Leu Lys 3015 Lys Gln Pro Val Asp	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu	Val Val 2985 Thr ) Lys Thr Tyr Phe 3065 Val	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln Val	Lys Leu Gly Lys Tyr 3035 Pro Pro	Leu Ser Lys Ser 3020 Gln Arg Ser Lys	Arg Ile Arg 3005 Glu Glu Cys Thr 3085 Leu	Trp 2990 Tyr Arg Leu Pro Ser 3070 Gly	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu	296 Ser Pro Ile Asn Val 304 His Val Ala
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710 6711 6712 6713 6714	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp	Leu Ser Ser His 3010 Gln Asp Ser Leu Phe 3090	Ser Lys Asp 2995 Leu Leu Glu Lys Ile 3075 Val	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu Phe	2950 Val Lys Ser Ser Thr 3030 Phe Asp Val Ser	Thr Asp Leu Lys 3015 Lys Gln Pro Val Asp 3095	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln Val	Lys Leu Gly Lys Tyr 3035 Pro Pro Lys Asn	Leu Ser Lys Ser 3020 Gln Arg Ser Lys Leu 3100	Arg Ile Arg 3005 Glu Glu Glu Cys Thr 3085 Leu	Trp: 2990 Tyr Arg Leu Pro Ser 3070 Gly Ala	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu	296 Ser Pro Ile Asn Val 304 His Val Ala Lys
E>	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710 6711 6712 6713 6714 6715	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp Pro	Leu Ser Ser His 3010 Gln Asp Ser Leu Phe 3090 Trp	Ser Lys Asp 2995 Leu Leu Glu Lys Ile 3075 Val	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu Phe	2950 Val Lys Ser Ser Thr 3030 Phe Asp Val Ser Asn	Thr Asp Leu Lys 3015 Lys Gln Pro Val Asp 3095 Glu	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln Val	Lys Leu Gly Lys Tyr 3035 Pro Lys Asn Lys	Leu Ser Lys Ser 3020 Gln Arg Ser Lys Leu 3100 Pro	Arg Ile Arg 3005 Glu Glu Cys Thr 3085 Leu	Trp: 2990 Tyr Arg Leu Pro Ser 3070 Gly Ala	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu	296 Ser Pro Ile Asn Val 304 His Val Ala Lys Ile
	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710 6711 6712 6713 6714 6715 <b>6716</b>	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp Pro	Leu Ser Ser His 3010 Gln Asp Ser Leu Phe 3090 Trp	Lys Asp 2995 Leu Leu Glu Lys Ile 3075 Val	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly Tyr Asp	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu Phe Leu	Z950 Val Lys Ser Ser Thr 3030 Phe Asp Val Ser Asn 3110	Thr Asp Leu Lys 3015 Lys Gln Pro Val Asp 3095 Glu	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu Asp	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val Cys	Trp 2970 Ile Glu Ser Gln Gln 3050 Gln Val Tyr	Lys Lys Lys Lys Lys Tyr 3035 Pro Lys Asn Lys 3115	Leu Ser Lys Ser 3020 Gln Arg Ser Lys Leu 3100 Pro	Arg Ile Arg 3005 Glu Glu Cys Thr 3085 Leu His	Trp 2990 Tyr Arg Leu Pro Ser 3070 Gly Ala	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu Ile	296 Ser Pro Ile Asn Val 304 His Val Ala Lys Ile 312
E>	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6711 6712 6713 6714 6715 <b>6716</b>	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp Pro	Leu Ser Ser His 3010 Gln Asp Ser Leu Phe 3090 Trp	Lys Asp 2995 Leu Leu Glu Lys Ile 3075 Val	Arg Lys- 2980 Leu Ala Ala Ile Phe 3060 Gly Tyr Asp	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu Phe Leu Leu	2950 Val Lys Ser Ser Thr 3030 Phe Asp Val Ser Asn Gln	Thr Asp Leu Lys 3015 Lys Gln Pro Val Asp 3095 Glu	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu Asp	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val Cys	Trp 2970 Ile Glu Ser Gln 3050 Gln Val Tyr Ile	Lys Lys Lys Lys Tyr 3035 Pro Lys Asn Lys 3115	Leu Ser Lys Ser 3020 Gln Arg Ser Lys Leu 3100 Pro	Arg Ile Arg 3005 Glu Glu Glu Cys Thr 3085 Leu	Trp 2990 Tyr Arg Leu Pro Ser 3070 Gly Ala	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu Ile Leu	296 Ser Pro Ile Asn Val 304 His Val Ala Lys Ile 312 Leu
E>	6697 6698 6699 6700 6701 6702 6703 6704 6705 <b>6706</b> 6707 6708 6709 6710 6711 6712 6713 6714 6715 <b>6716</b>	2945 Gly Tyr Ser Tyr Ile 3025 Ser Phe Asp Pro Phe 3105 Ala	Leu Ser Ser His 3010 Gln Asp Ser Leu Phe 3090 Trp Ala	Lys Asp 2995 Leu Leu Glu Lys Ile 3075 Val Ile Ser	Arg Lys 2980 Leu Ala Ala Ile Phe 3060 Gly Tyr Asp Asn	Asp 2965 Glu Tyr Thr Ala Leu 3045 Leu Phe Leu Leu	Z950 Val Lys Ser Ser Thr 3030 Phe Asp Val Ser Asn Gln	Thr Asp Leu Lys 3019 Lys Gln Pro Val Asp 3099 Glu Trp	Thr Ser Leu 3000 Ser Lys Lys Ile Asp Ser 3080 Glu Asp Arg	Val Val 2985 Thr Lys Thr Tyr Phe 3065 Val Cys Ile	Trp 2970 Ile Glu Ser Gln 3050 Gln Val Tyr Ile Glu 3130	Lys Lys Tyr 3035 Pro Lys Asn Lys Ser	Leu Ser Lys Ser 3020 Gln Arg Ser Lys Leu 3100 Pro Lys	Arg Ile Arg 3005 Glu Glu Cys Thr 3085 Leu His	Trp 2990 Tyr Arg Leu Pro Ser 3070 Gly Ala Met	Val 2975 Arg Arg Ala Pro Leu 3055 Glu Leu Leu Leu	296 Ser Pro Ile Asn Val 304 His Val Ala Lys Ile 312 Leu

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	6720				3140	)				3145	5				3150	) .	
	6721	Gly	His	Phe	Gln	Glu	Thr	Phe	Asn	Lys	Met	Lys	Asn	Thr	Val	Glu	Asn
	6722			315	5				3160	)				3169	5		
	6723	Ile	Asp	Ile	Leu	Cys	Asn			Glu	Asn	Lys	Leu	Met	His	Ile	Leu
	6724		3170	)				3175	5				3180	)			
	6725		Ala	Asn	Asp	Pro	-4	-	Ser	Thr	Pro		-	Asp	Cys	Thr	
E>		3185					3190					319					320
	6727	Gly	Pro	Tyr	Thr			Ile	Ile	Pro	_		Gly	Asn	Lys		
	6728					3205					3210					3215	
	6729	Met	Ser	Ser			Cys	Glu	Ile			Gln	Ser	Pro			Leu
•	6730				3220					3225					3230		
	6731	Cys	Met			Arg	Lys	Ser			Thr	Pro	Val			Gln	Met
	6732		_	3235		_			3240		~-		_	3245		_	_
	6733	Thr	Ser	-	Ser	Cys	Lys	_		Lys	GLu	He	_	_	GIn	Lys	Asn
	6734	~	3250		_	_		3255			_	~	3260		_	_	_
	6735	_	Lys -	Lys	Arg	Arg			Asp	Phe	Leu			Leu	Pro	Leu	
E>		3265		r7 - 7	G	r>	3270		m1	Dl- a	T7 7	3275		71.7 -	7\ 7\ -	C1	328
	6737 6738	Pro.	Pro	var	ser	3285		Cys	inr	Pne	3290		Pro	ALA	Ala	3295	-
	6739	777	Dho	Cln	Droo			C 0 20	Cvia	Clu			TT 120	Clu	mb~		
	6740	Ald	Phe	GTU	3300		Arg	ser	Cys	3305		пλг	т Ат	GIU	3310		тте
	6741	T 110	Lys	Trac			7 cn	Cor	Dro			mb x	Dro	Dho			Dho
	6742	пур	цуз	3315		пеп	USII	ner	3320		LIC C	TILL	LLO	3325		_	1110
	6743	Aen	Glu			T. 🗕 11	ĭ.e.ii	Glu			Sar	Tle	Δla				T.e.11
	6744	non	3330		DCI	пеа	n C a	3335		11011	DOL		3340	-	Olu	O.F. U.	шсα
	6745	Ala	Leu		Asn	Thr	Gln			Len	Ser	Glv			Glv	Glu	Lvs
E>		3345			11011		3350				~	3355			1		336
	6747		Phe	Ile	Ser	Val			Ser	Thr	Ara			Pro	Thr	Ser	
	6748					3365					3370					3375	
	6749	Glu	Asp	Tyr	Leu	Arq	Leu	Lvs	Arq	Arg	Cys	Thr	Thr	Ser	Leu	Ile	Lys
	6750			-	3380			-		3385					3390		_
	6751	Glu	Gln	Glu	Ser	Ser	Gln	Ala	Ser	Thr	Glu	Glu	Cys	Glu	Lys	Asn	Lys
	6752			3395					3400				_	3405			***
	6753	Gln	Asp	Thr	Ile	Thr	Thr	Lys	Lys	Tyr	Ile						
	6754		3410	)				3415	5								

Marie

Elease ersene subsequent sequeror showing the above errors are edited,





#### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/084,471B

B TIME: 11:40:56

DATE: 06/25/2001

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

```
L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:16 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:36 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:37 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:75 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:94 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:115 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:122 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=3
L:1151 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:1761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:2484 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:2495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:3808 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
M:332 Repeated in SeqNo=9
L:5132 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
M:332 Repeated in SeqNo=11
L:6456 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:13
M:332 Repeated in SeqNo=13
L:6798 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6818 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6839 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6860 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6881 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6902 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6922 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6944 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:6965 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7005 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7025 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7047 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7068 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7088 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7109 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7130 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7151 M:246 W: Invalid value of Alpha Sequence Header Field, [FEATURE:], SeqNo=33
L:7173 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7194 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7215 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7236 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7257 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7278 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7298 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7320 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7341 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
L:7361 M:220 C: Keyword misspelled or invalid format, [(ix) FEATURE:]
```





#### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/084,471B

DATE: 06/25/2001 TIME: 11:40:56

Input Set : A:\G150581u.txt

Output Set: N:\CRF3\06252001\I084471B.raw

L:7383	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7404	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)]	FEATURE:]
L:7425	M:220	С:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7446	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7467	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7488	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7546	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7567	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7588	M:220	Ċ:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7609	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7648	M:220	C:	Keyword	misspelled	or	invalid	format,	(ix)	FEATURE:]
L:7669	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7690	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7710	M:220	C:		misspelled				[(ix)	FEATURE:]
L:7731	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7753	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)	FEATURE:]
L:7774	M:220	C:	Keyword	misspelled	or	invalid	format,	[(ix)]	FEATURE:]